

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFCJWN-WTW-P26010146-2
FCC ID: 2AEUP-5CFYA8
Product: Security Camera
Brand: ring
Model No.: 5CFYA8
Received Date: 2026/1/12
Test Date: 2026/1/16 ~ 2026/2/3
Issued Date: 2026/4/1
Applicant: Ring LLC
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / (1) 788550 / TW0003
Designation Number: (2) 281270 / TW0032

Approved by:

Jeremy Lin

Jeremy Lin / Project Engineer

, Date:

2026/4/1

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Prepared by : Vera Huang / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFCJWN-WTW-P26010146-2	Original Release	2026/4/1

1 Certificate

Product: Security Camera

Brand: ring

Test Model: 5CFYA8

Sample Status: Engineering sample

Applicant: Ring LLC

Test Date: 2026/1/16 ~ 2026/2/3

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement ANSI C63.10-2020

procedure: KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -13.85 dB at 0.66811 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -8.8 dB at 794.36 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -3.0 dB at 5150.00 MHz, 5350.00 MHz and 5725.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is IPEX not a standard connector.

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The "Dynamic Frequency Selection measurement" was recorded in DFS test report.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Security Camera
Brand	ring
Test Model	5CFYA8
Status of EUT	Engineering sample
Power Supply Rating	USB TypeC input: 20Vdc, 65W POE IN: 48Vdc, 56W (802.3bt)
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 2402 Mbps
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.25 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	5.18 GHz ~ 5.25 GHz: 233.91 mW (23.69 dBm) 5.25 GHz ~ 5.32 GHz: 232.835 mW (23.67 dBm) 5.5 GHz ~ 5.72 GHz: 161.083 mW (22.07 dBm) 5.745 GHz ~ 5.825 GHz: 417.869 mW (26.21 dBm)
EUT Category	Client device

Note:

1. The EUT contains following accessories.

AC Adapter	Brand	ring
	Model	6PFYA3
	AC Input	100-240Vac, 1.8A, 50/60Hz
	DC Output	5.0Vdc, 3.0A, 15.0W / 9.0Vdc, 3.0A, 27.0W / 15.0Vdc, 3.0A, 45.0W / 20.0Vdc, 3.25A, 65.0W
	AC input Cable	Non-shielded 3-pin cable (2.2m)
	DC Output Cable	Shielded USB-C cable (1.65m)

2. There are Bluetooth LE and WLAN (2.4 GHz & 5 GHz) and LoRa technology used for the EUT.

3. Simultaneously transmission combination.

Combination	Technology		
1	WLAN (5 GHz) MIMO	Bluetooth LE	LoRa
2	WLAN (2.4 GHz) MIMO	LoRa	-

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Item	Antenna Gain (dBi)	Frequency Range	Antenna Type	Connector Type
Wi-Fi 0	2.8	5.15~5.25GHz	Dipole - Flex	IPEX
	2.8	5.25~5.35GHz		
	2.5	5.47~5.725GHz		
	4	5.725~5.85GHz		
Wi-Fi 1	2.8	5.15~5.25GHz	Dipole - Flex	IPEX
	2.8	5.25~5.35GHz		
	4.8	5.47~5.725GHz		
	4.3	5.725~5.85GHz		

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz), and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz). Therefore, the investigated worst case is the representative mode in test report.
4. The EUT does not use channel puncturing and bandwidth reduction.

3.3 Channel List

For 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
50	5250 MHz

For 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
114	5570 MHz

For 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis / Y-axis / Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. The EUT can be powered by following ways: Type-C with Adapter / POE Adapter. Pre-scan these ways and find the worst case as a representative test condition. 3. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. X-axis / Y-axis / Z-axis Worst Condition: Z-axis 2. Worst Condition: EUT with Type-C with Adapter.

Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ac (VHT40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ac (VHT80)	CDD	58, 106, 122, 138	BPSK	MCS0
	802.11ac (VHT160)	CDD	50, 114	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	CDD & Beamforming	50, 114	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	CDD	50, 114	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	138, 155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	CDD	50, 114	BPSK	MCS0

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
AC Power Conducted Emissions	802.11ac (VHT40)	CDD	151	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ac (VHT40)	CDD	151	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	CDD	50, 114	BPSK	MCS0

3.5 Duty Cycle of Test Signal

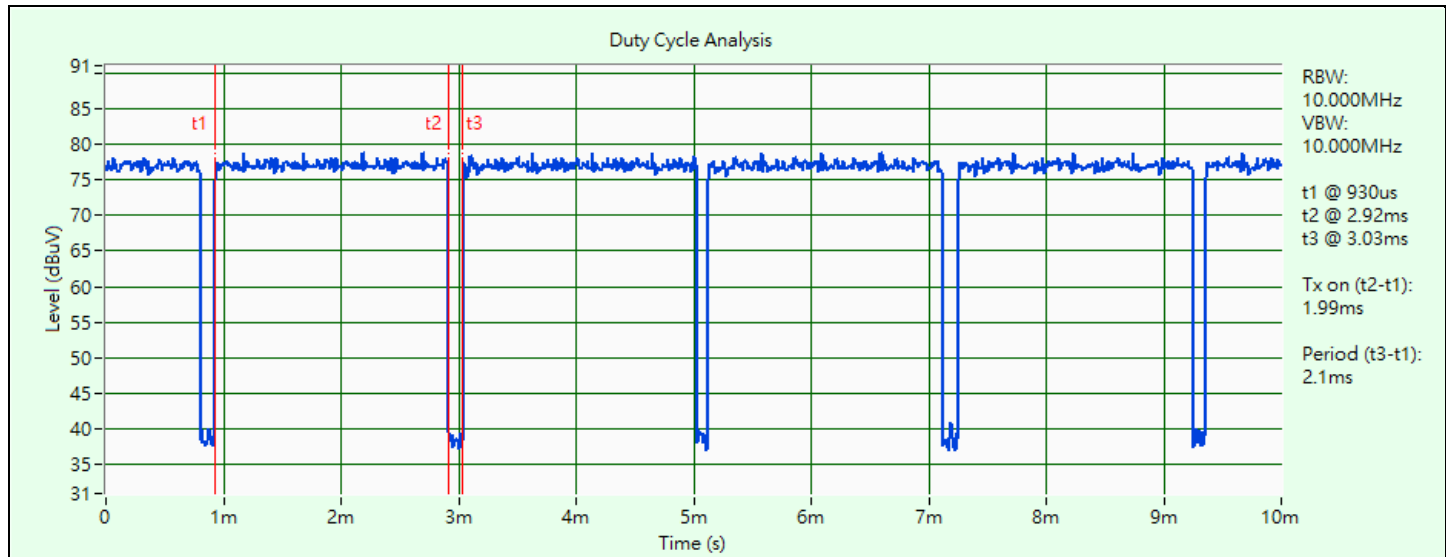
802.11a: Duty cycle = $1.99 \text{ ms} / 2.1 \text{ ms} \times 100\% = 94.8\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.23 \text{ dB}$

802.11ac (VHT20): Duty cycle = $5.45 \text{ ms} / 5.925 \text{ ms} \times 100\% = 92.0\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.36 \text{ dB}$

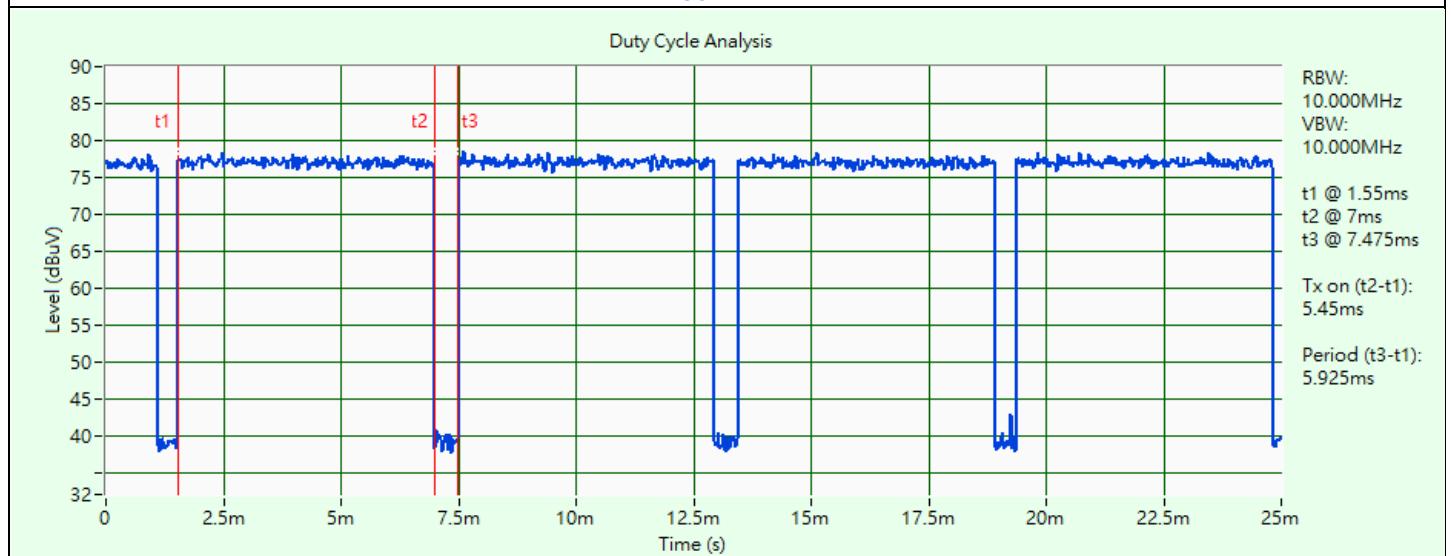
802.11ac (VHT40): Duty cycle = $5.475 \text{ ms} / 5.925 \text{ ms} \times 100\% = 92.4\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.34 \text{ dB}$

802.11ac (VHT80): Duty cycle = $5.475 \text{ ms} / 5.975 \text{ ms} \times 100\% = 91.6\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.38 \text{ dB}$

802.11ac (VHT160): Duty cycle = $5.45 \text{ ms} / 5.9 \text{ ms} \times 100\% = 92.4\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.34 \text{ dB}$

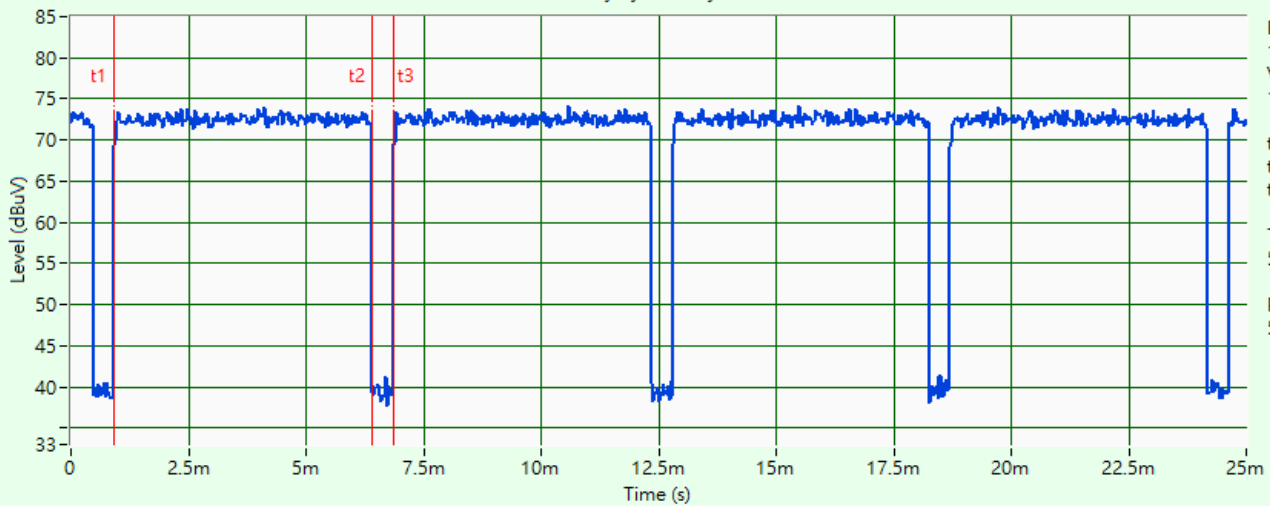


802.11a



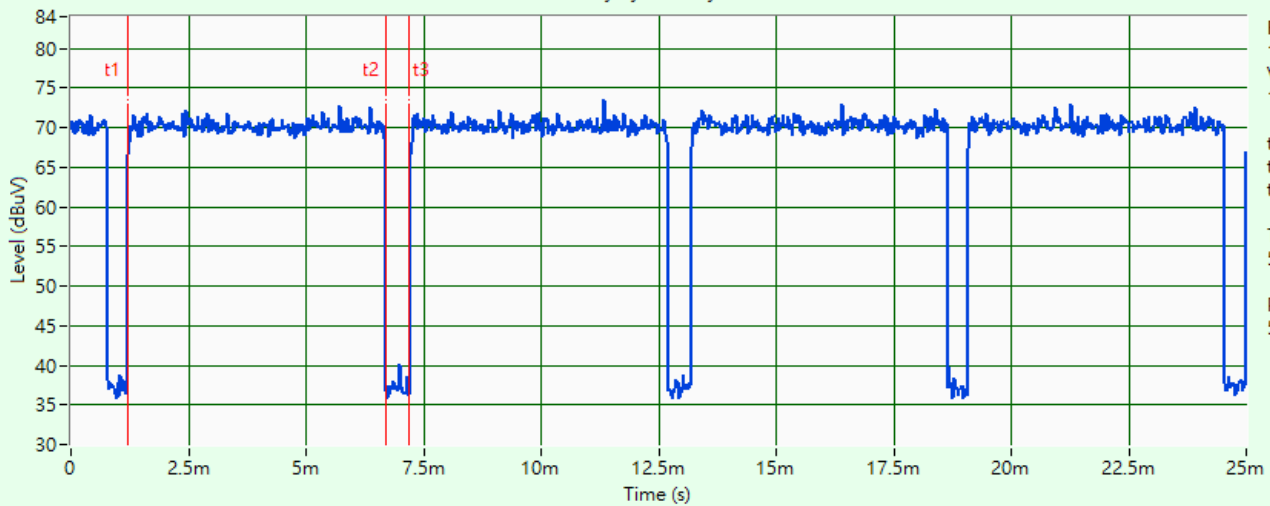
802.11ac (VHT20)

Duty Cycle Analysis



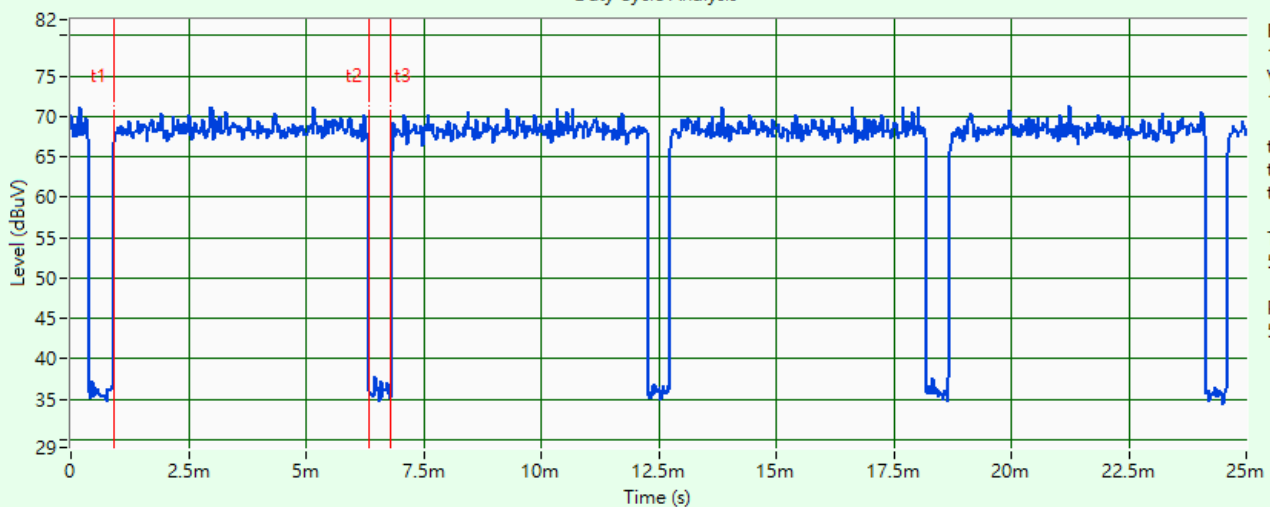
802.11ac (VHT40)

Duty Cycle Analysis



802.11ac (VHT80)

Duty Cycle Analysis

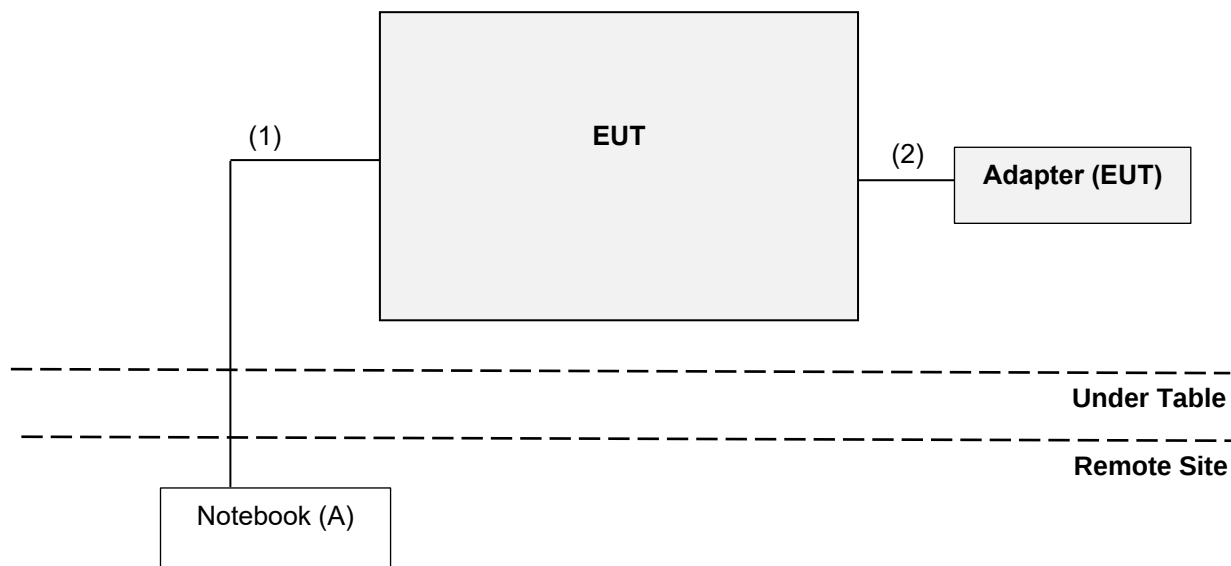


802.11ac (VHT160)

3.6 Test Program Used and Operation Descriptions

Controlling software QRCT version 4.0.210.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Notebook	Lenovo	L470	N/A	N/A	Provided by Lab

No.	Cable Descriptions	Qty.	Length (m)	Shielded (Yes/ No)	Cores (Qty.)	Remark
1.	RJ-45 Cable	1	10	No	0	Provided by Lab
2.	USB Type C Cable	1	1.65	Yes	0	Accessory of EUT

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Huaya - Oven room.
2. Tested Date: 2026/2/1

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000538	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Wideband Power Sensor Keysight	N1923A	MY58200003	2025/5/29	2026/5/28

Notes:

1. The test was performed in Huaya - Oven room.
2. Tested Date: 2026/2/1 ~ 2026/2/3

4.3 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Huaya - Oven room.
2. Tested Date: 2026/2/1 ~ 2026/2/3

4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011276	01	2025/2/11	2026/2/10
	E1-011277	02	2025/10/31	2026/10/30
	E1-011313	11	2025/2/11	2026/2/10
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2025/11/3	2026/11/2
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01445	2025/4/27	2026/4/26
EMI Test Receiver R&S	ESCI	100613	2025/11/27	2026/11/26
LISN R&S	ENV216	101826	2025/3/24	2026/3/23
	ESH3-Z5	100311	2025/8/28	2026/8/27
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2026/1/3	2027/1/2
Software BVADT	BVADT_Conc_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2025/8/27	2026/8/26

Notes:

1. The test was performed in Huaya - Conduction 1.
2. Tested Date: 2026/1/29

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1214	2025/9/18	2026/9/17
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier EMCI	EMC330N	980798	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201248	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-3000	201249	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-9000	201251(with PAD)	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in Wenming - 966 chamber 9.
2. Tested Date: 2026/1/22

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210104A18E	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2025/11/9	2026/11/8
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier Agilent	83017A	MY39501357	2025/6/11	2026/6/10
Preamplifier EMCI	EMC184045SE	980788	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2026/1/13	2027/1/12
	EMC101G-KM-KM-5000	201261	2026/1/13	2027/1/12
	EMC104-SM-SM-1000	210103	2026/1/13	2027/1/12
	EMC104-SM-SM-3000	201241	2026/1/13	2027/1/12
	EMC104-SM-SM-9000	201244	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in Wenming - 966 chamber 9.
2. Tested Date: 2026/1/16 ~ 2026/1/22

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Points	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Client devices	250mW (24 dBm)

Operation Band	Limit
U-NII-2A	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Points	
	Indoor Access Point	
	Client devices	11 dBm/MHz

Operation Band	Limit
U-NII-2A	11 dBm/MHz
U-NII-2C	11 dBm/MHz
U-NII-3	30 dBm/500 kHz

5.4 6 dB Bandwidth

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.5 Occupied Bandwidth

The results are for reference only.

5.6 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.7 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.8 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)

For transmitters operating in the 5.15-5.25 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.25-5.35 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.47-5.725 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1}	PK: 68.2 (dBμV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBμV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBμV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	PK: 122.2 (dBμV/m) ^{*4}

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

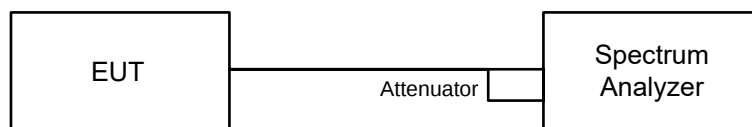
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts).}$$

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

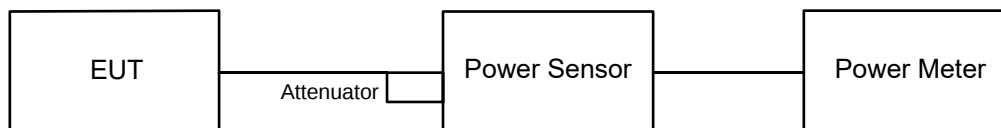


6.1.2 Test Procedure

- a. Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = peak.
- d. Trace mode = max-hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

For channel straddling:

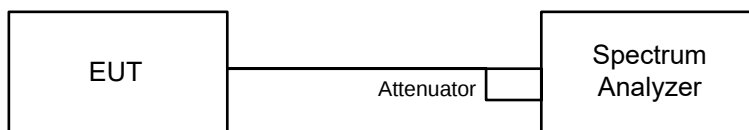
Method SA-2A

- a. Measure the duty cycle of the transmitter output signal.
- b. Set span to encompass the entire 99% OBW of the signal.
- c. Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- d. Number of points in sweep $\geq$ $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq$ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- e. Manually set sweep time $\geq$ $[10 \times (\text{number of points in sweep}) \times (\text{total ON/OFF period of the transmitted signal})]$.
- f. Perform a single sweep.
- g. Compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band-power measurement function with band limits set equal to the OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.
- h. Record the max value and add $10 \log (1/\text{duty cycle})$.

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the 99% OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-2

- Measure the duty cycle of the transmitter output signal.
- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

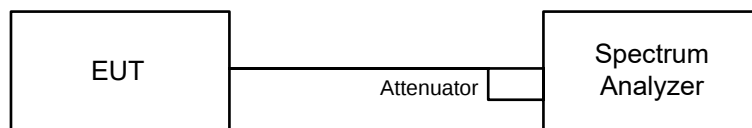
For specified measurement bandwidth 500 kHz:

Method SA-2

- Measure the duty cycle of the transmitter output signal.
- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS.
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$.
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

6.4 6 dB Bandwidth

6.4.1 Test Setup

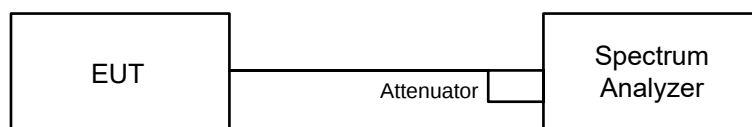


6.4.2 Test Procedure

- Set RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.5 Occupied Bandwidth

6.5.1 Test Setup



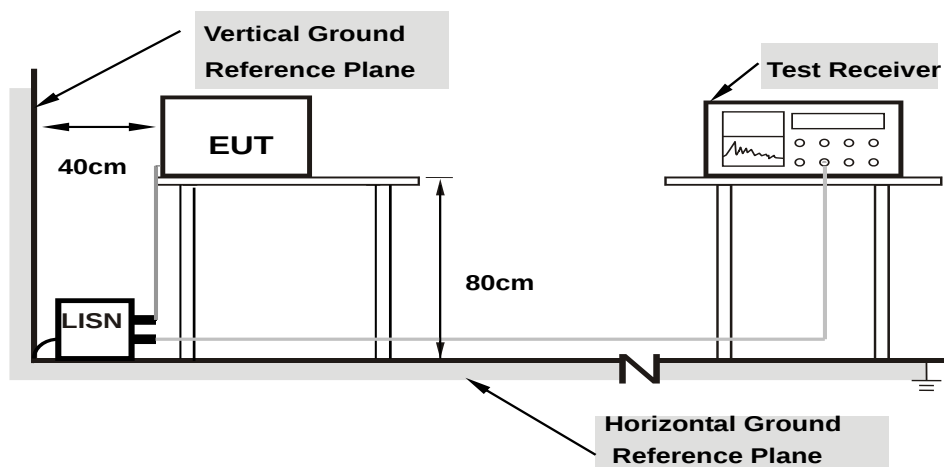
6.5.2 Test Procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level.
- Step a) through step c) might require iteration to adjust within the specified range.
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

6.6 AC Power Conducted Emissions

6.6.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

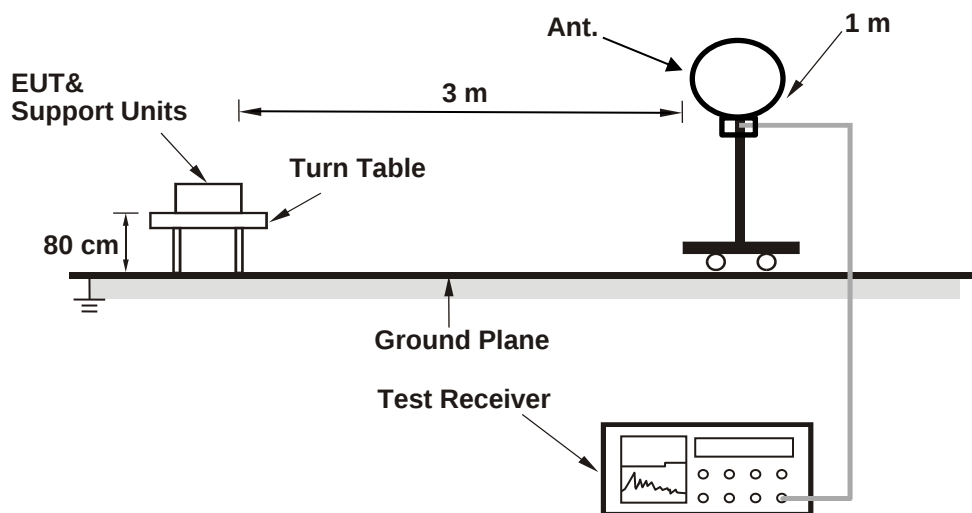
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

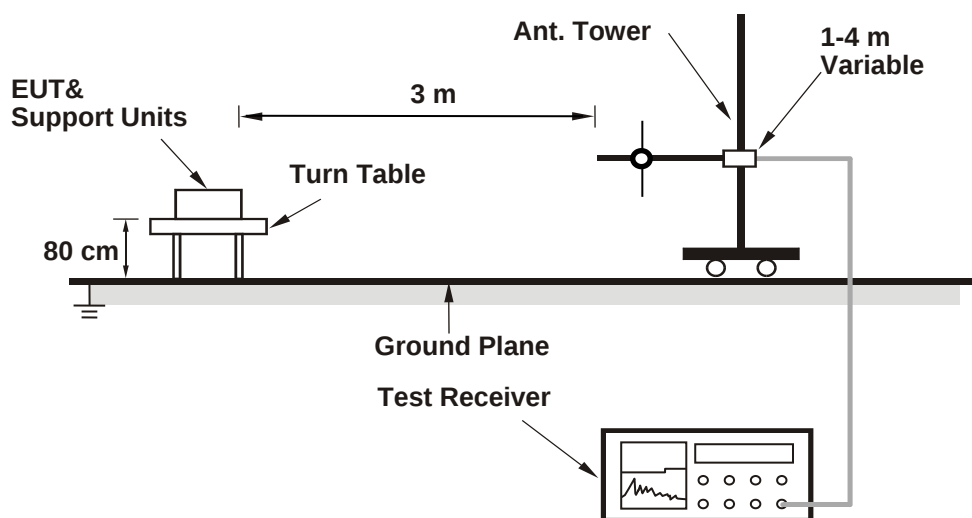
6.7 Unwanted Emissions below 1 GHz

6.7.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode (however, peak detector measurements may be used to determine compliance with QP requirements), except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

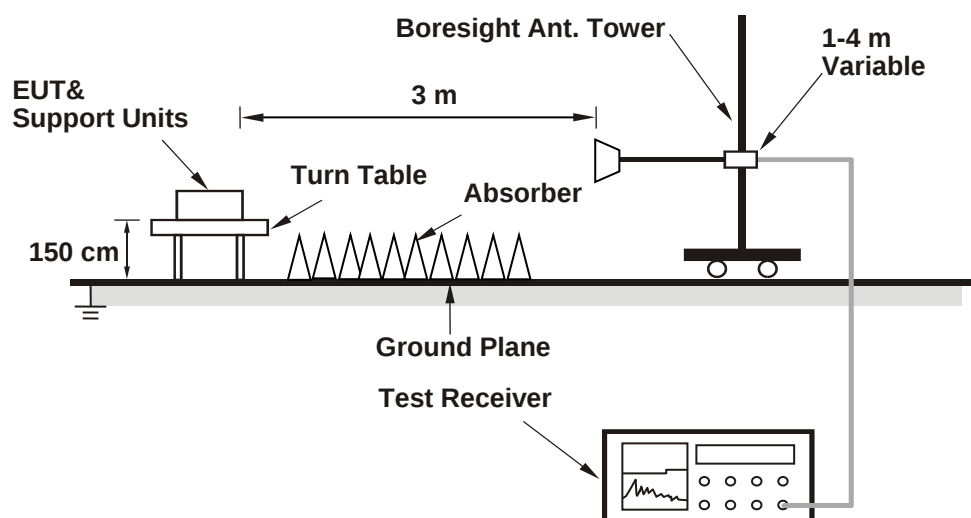
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz (however, peak detector measurements may be used to determine compliance with QP requirements).
2. All modes of operation were investigated and the worst-case emissions are reported.

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.8.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 26 dB Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.73	18.93
60	5300	19.58	18.90
64	5320	19.63	18.92
100	5500	19.63	19.02
116	5580	19.59	18.93
140	5700	19.60	18.82
144 (U-NII-2C)	5720	14.39	14.39
144 (U-NII-3)	5720	4.44	4.47

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	18.73	23.72	<	24
60	5300	18.90	23.76	<	24
64	5320	18.92	23.76	<	24
100	5500	19.02	23.79	<	24
116	5580	18.93	23.77	<	24
140	5700	18.82	23.74	<	24
144 (U-NII-2C)	5720	14.39	22.58	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.93	20.92
60	5300	20.69	21.22
64	5320	20.73	21.14
100	5500	20.79	21.11
116	5580	20.81	20.86
140	5700	20.89	21.21
144 (U-NII-2C)	5720	15.35	15.30
144 (U-NII-3)	5720	5.76	5.33

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	19.93	23.99	<	24
60	5300	20.69	24.15	>	24
64	5320	20.73	24.16	>	24
100	5500	20.79	24.17	>	24
116	5580	20.81	24.18	>	24
140	5700	20.89	24.19	>	24
144 (U-NII-2C)	5720	15.30	22.84	<	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	39.52	39.53
62	5310	39.49	39.58
102	5510	39.66	39.68
110	5550	39.48	39.57
134	5670	39.42	39.58
142 (U-NII-2C)	5710	34.60	34.54
142 (U-NII-3)	5710	4.86	4.93

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	39.52	26.96	>	24
62	5310	39.49	26.96	>	24
102	5510	39.66	26.98	>	24
110	5550	39.48	26.96	>	24
134	5670	39.42	26.95	>	24
142 (U-NII-2C)	5710	34.54	26.38	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	81.08	81.08
106	5530	81.19	81.33
122	5610	81.16	81.09
138 (U-NII-2C)	5690	75.56	75.73
138 (U-NII-3)	5690	5.65	5.38

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	81.08	30.08	>	24
106	5530	81.19	30.09	>	24
122	5610	81.09	30.08	>	24
138 (U-NII-2C)	5690	75.56	29.78	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

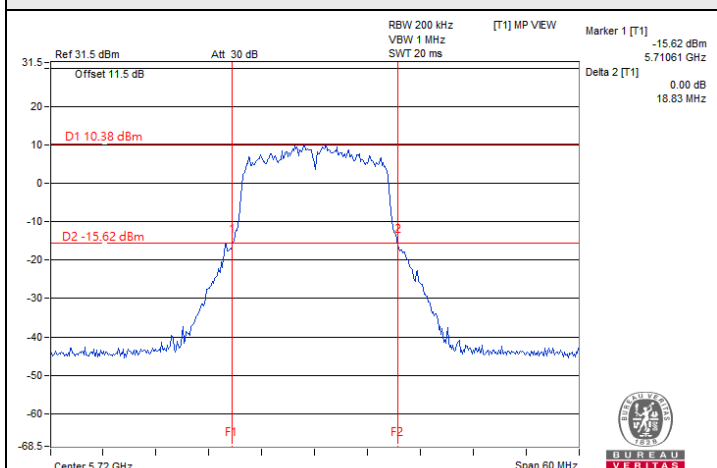
802.11ac (VHT160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	82.03	83.63
50 (U-NII-2A)	5250	82.15	82.73
114	5570	164.92	165.94

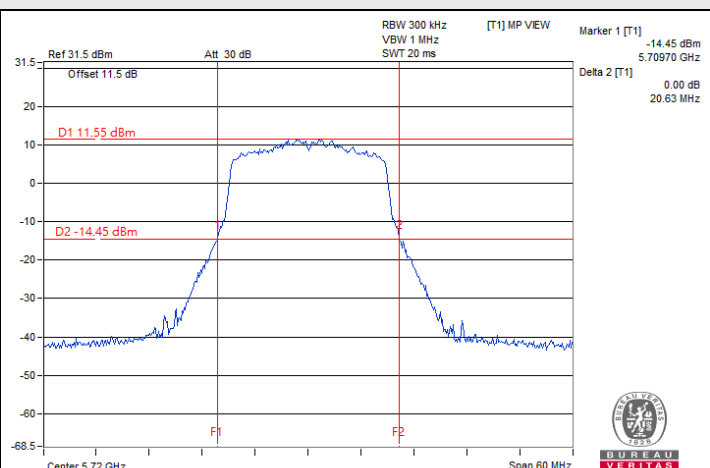
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	82.15	30.14	>	24
114	5570	164.92	33.17	>	24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

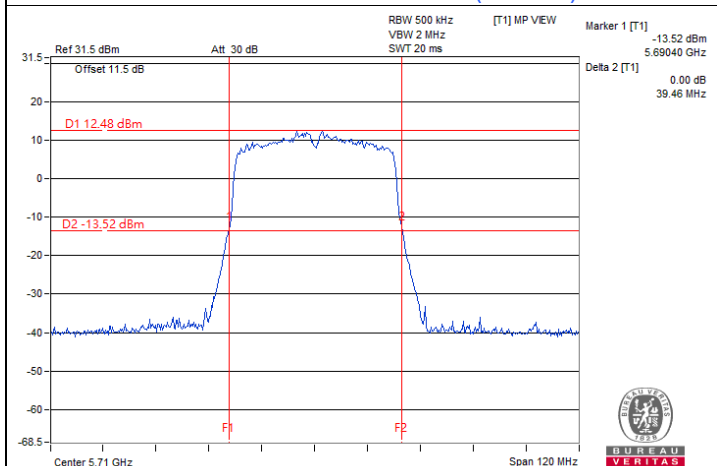
Spectrum Plot of Minimum Value



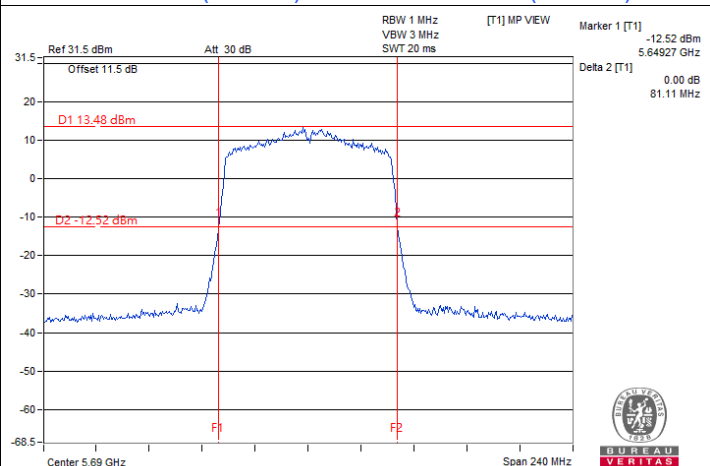
802.11a / Chain 0: CH 144 (U-NII-3)



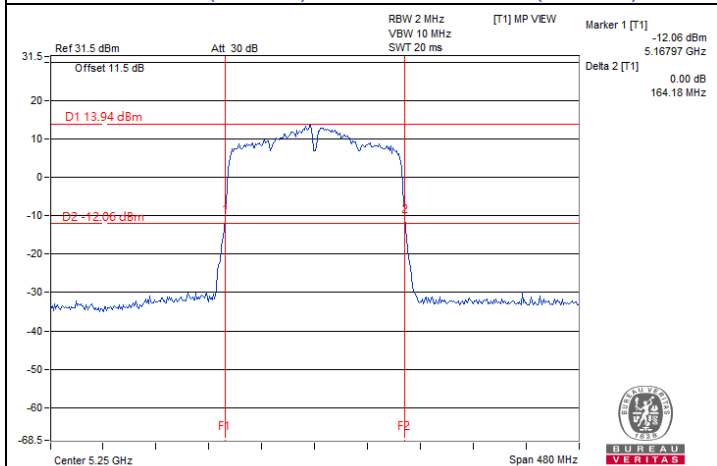
802.11ac (VHT20) / Chain 1: CH 144 (U-NII-3)



802.11ac (VHT40) / Chain 0: CH 142 (U-NII-3)



802.11ac (VHT80) / Chain 1: CH 138 (U-NII-3)



802.11ac (VHT160) / Chain 0: CH 50 (U-NII-1)

Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

7.2 RF Output Power

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin & Jisyong Wang
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	19.77	19.61	186.253	22.70	24	Pass
40	5200	19.68	19.66	185.366	22.68	24	Pass
48	5240	19.74	19.48	182.905	22.62	24	Pass
52	5260	19.78	19.45	183.165	22.63	23.72	Pass
60	5300	19.80	19.41	182.796	22.62	23.76	Pass
64	5320	19.80	19.70	188.825	22.76	23.76	Pass
100	5500	19.02	18.88	157.068	21.96	23.79	Pass
116	5580	19.12	18.83	158.042	21.99	23.77	Pass
140	5700	19.05	18.86	157.266	21.97	23.74	Pass
*144 (U-NII-2C)	5720	17.90	17.65	126.496	21.02	22.58	Pass
*144 (U-NII-3)	5720	9.96	9.74	20.396	13.10	30	Pass
149	5745	22.86	22.75	381.562	25.82	30	Pass
157	5785	22.64	22.58	364.788	25.62	30	Pass
165	5825	22.17	21.89	319.342	25.04	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.3 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	19.74	19.72	187.945	22.74	24	Pass
40	5200	19.84	19.59	187.374	22.73	24	Pass
48	5240	19.61	19.57	181.985	22.60	24	Pass
52	5260	19.65	19.52	181.794	22.60	23.99	Pass
60	5300	19.66	19.59	183.461	22.64	24	Pass
64	5320	19.51	19.46	177.639	22.50	24	Pass
100	5500	18.90	18.87	154.715	21.90	24	Pass
116	5580	18.83	18.75	151.373	21.80	24	Pass
140	5700	18.95	18.81	154.556	21.89	24	Pass
*144 (U-NII-2C)	5720	17.66	17.65	126.713	21.03	22.84	Pass
*144 (U-NII-3)	5720	10.31	10.28	23.272	13.67	30	Pass
149	5745	22.70	22.53	365.269	25.63	30	Pass
157	5785	22.43	22.24	342.479	25.35	30	Pass
165	5825	22.08	21.54	303.997	24.83	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.3 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	19.87	19.44	184.953	22.67	24	Pass
46	5230	20.72	20.64	233.91	23.69	24	Pass
54	5270	20.70	20.62	232.835	23.67	24	Pass
62	5310	19.90	19.74	191.913	22.83	24	Pass
102	5510	18.95	18.92	156.507	21.95	24	Pass
110	5550	19.10	19.02	161.083	22.07	24	Pass
134	5670	19.12	18.88	158.926	22.01	24	Pass
*142 (U-NII-2C)	5710	18.28	17.99	140.954	21.49	24	Pass
*142 (U-NII-3)	5710	6.08	5.34	8.089	9.08	30	Pass
151	5755	23.23	23.17	417.869	26.21	30	Pass
159	5795	23.10	22.59	385.725	25.86	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.3 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	19.76	19.51	183.954	22.65	24	Pass
58	5290	19.54	19.44	177.852	22.50	24	Pass
106	5530	19.10	18.75	156.272	21.94	24	Pass
122	5610	19.12	18.72	156.131	21.93	24	Pass
*138 (U-NII-2C)	5690	18.41	18.06	145.491	21.63	24	Pass
*138 (U-NII-3)	5690	1.08	0.43	2.604	4.16	30	Pass
155	5775	21.22	20.61	247.514	23.94	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.3 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	15.43	15.25	74.059	18.70	24	Pass
*50 (U-NII-2A)	5250	15.08	14.74	67.115	18.27	24	Pass
114	5570	18.72	18.37	143.18	21.56	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.8 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	19.74	19.72	187.945	22.74	24	Pass
40	5200	19.84	19.59	187.374	22.73	24	Pass
48	5240	19.61	19.57	181.985	22.60	24	Pass
52	5260	17.94	17.77	122.071	20.87	23.99	Pass
60	5300	17.91	17.87	123.037	20.90	24	Pass
64	5320	17.82	17.80	120.79	20.82	24	Pass
100	5500	16.99	16.94	99.435	19.98	23.26	Pass
116	5580	16.88	16.79	96.506	19.85	23.26	Pass
140	5700	17.04	16.91	99.673	19.99	23.26	Pass
*144 (U-NII-2C)	5720	15.66	15.65	79.951	19.03	22.1	Pass
*144 (U-NII-3)	5720	8.31	8.28	14.683	11.67	28.84	Pass
149	5745	22.70	22.53	365.269	25.63	28.84	Pass
157	5785	22.43	22.24	342.479	25.35	28.84	Pass
165	5825	22.08	21.54	303.997	24.83	28.84	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2]$
- For U-NII-1, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.74 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.74-6)].
- For U-NII-3, the directional gain is 7.16 dBi $>$ 6 dBi, so the output power limit shall be reduced to $30-(7.16-6) = 28.84$ dBm.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	19.87	19.44	184.953	22.67	24	Pass
46	5230	20.72	20.64	233.91	23.69	24	Pass
54	5270	17.89	17.78	121.497	20.85	24	Pass
62	5310	18.00	17.82	123.63	20.92	24	Pass
102	5510	17.05	17.02	101.049	20.05	23.26	Pass
110	5550	17.16	17.12	103.522	20.15	23.26	Pass
134	5670	17.22	16.94	102.154	20.09	23.26	Pass
*142 (U-NII-2C)	5710	16.28	15.99	88.936	19.49	23.26	Pass
*142 (U-NII-3)	5710	4.08	3.34	5.104	7.08	28.84	Pass
151	5755	23.23	23.17	417.869	26.21	28.84	Pass
159	5795	23.10	22.59	385.725	25.86	28.84	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.74 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.74-6)].
- For U-NII-3, the directional gain is 7.16 dBi $>$ 6 dBi, so the output power limit shall be reduced to $30-(7.16-6) = 28.84$ dBm.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	19.76	19.51	183.954	22.65	24	Pass
58	5290	18.11	18.01	127.955	21.07	24	Pass
106	5530	17.21	16.85	101.019	20.04	23.26	Pass
122	5610	17.25	16.86	101.617	20.07	23.26	Pass
*138 (U-NII-2C)	5690	16.41	16.06	91.799	19.63	23.26	Pass
*138 (U-NII-3)	5690	-0.92	-1.57	1.6432	2.16	28.84	Pass
155	5775	21.22	20.61	247.514	23.94	28.84	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.74 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.74-6)].
- For U-NII-3, the directional gain is 7.16 dBi $>$ 6 dBi, so the output power limit shall be reduced to $30-(7.16-6) = 28.84$ dBm.

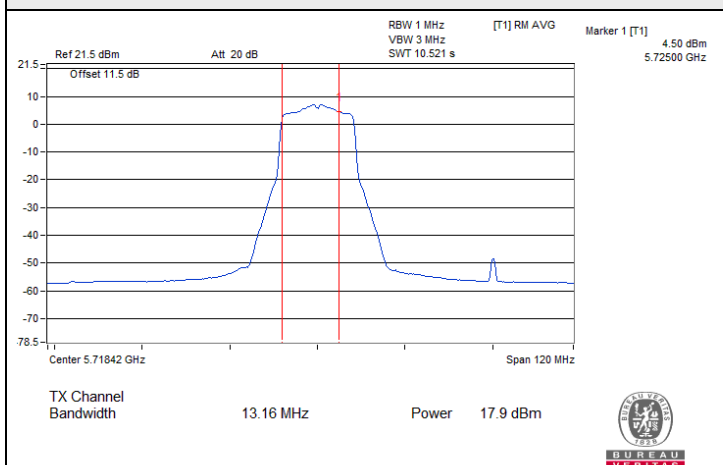
802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	14.43	14.25	58.827	17.70	24	Pass
*50 (U-NII-2A)	5250	14.08	13.74	53.311	17.27	24	Pass
114	5570	17.28	16.94	102.888	20.12	23.26	Pass

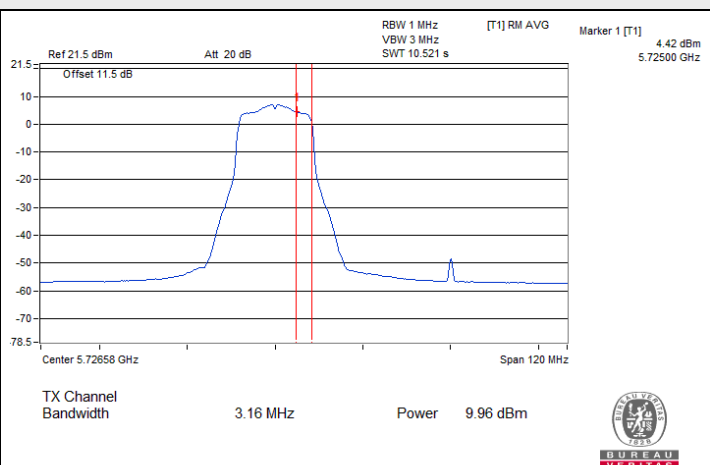
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.74 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.74-6)].

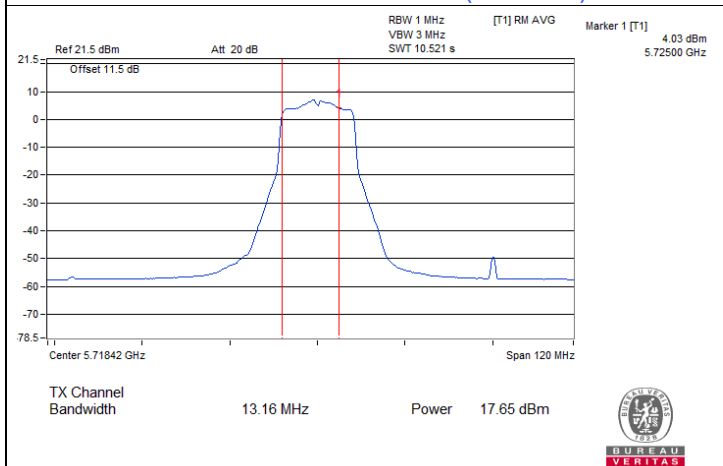
Spectrum Plot for channel straddling



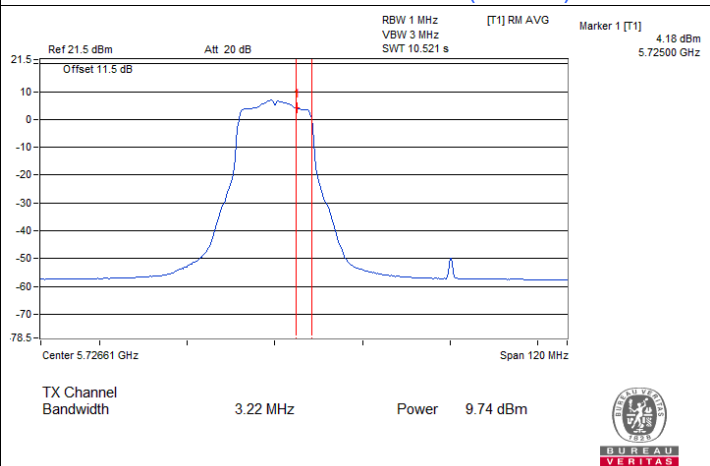
802.11a / Chain 0: CH 144 (U-NII-2C)



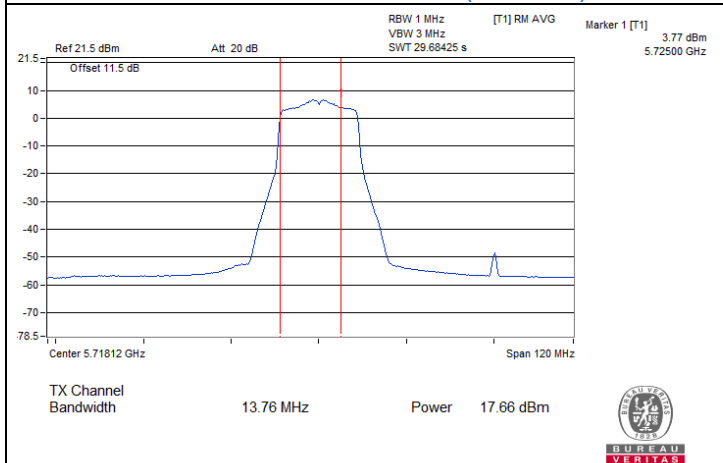
802.11a / Chain 0: CH 144 (U-NII-3)



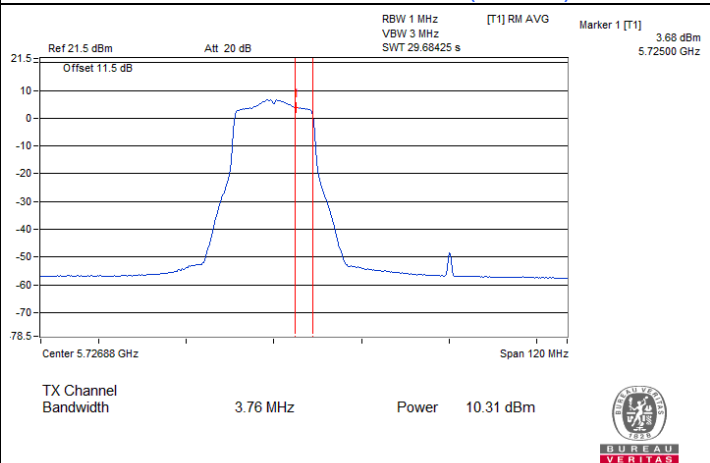
802.11a / Chain 1: CH 144 (U-NII-2C)



802.11a / Chain 1: CH 144 (U-NII-3)

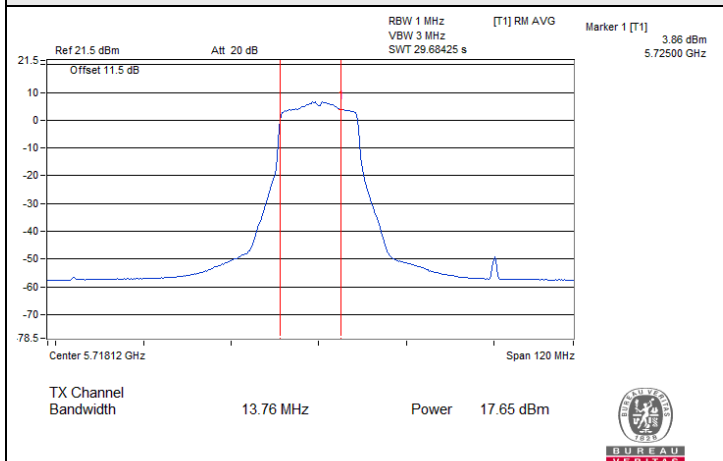


802.11ac (VHT20) / Chain 0: CH 144 (U-NII-2C)

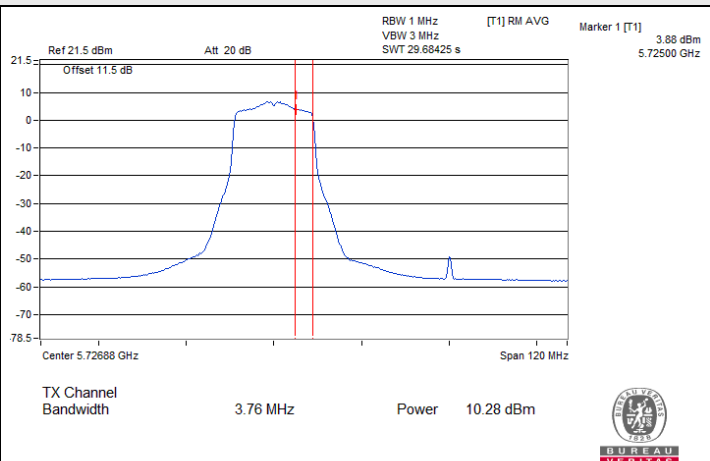


802.11ac (VHT20) / Chain 0: CH 144 (U-NII-3)

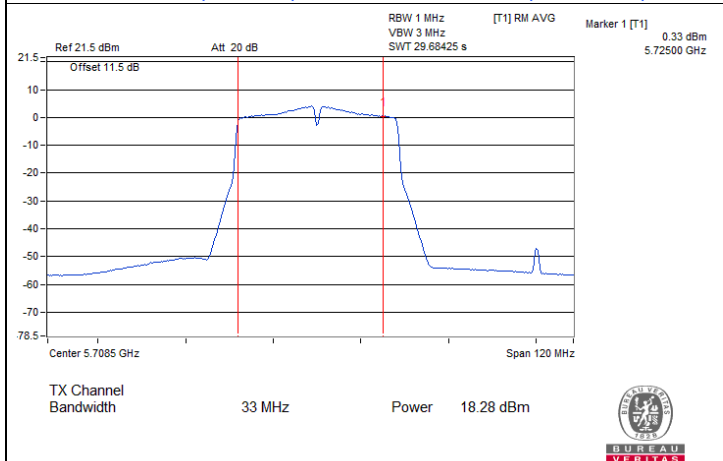
Spectrum Plot for channel straddling



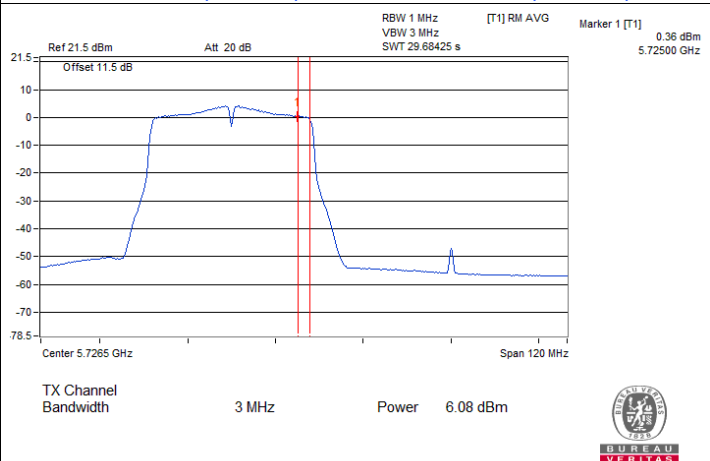
802.11ac (VHT20) / Chain 1: CH 144 (U-NII-2C)



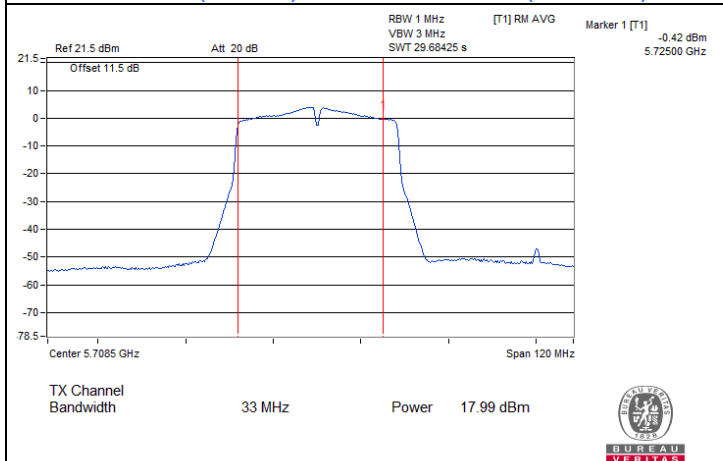
802.11ac (VHT20) / Chain 1: CH 144 (U-NII-3)



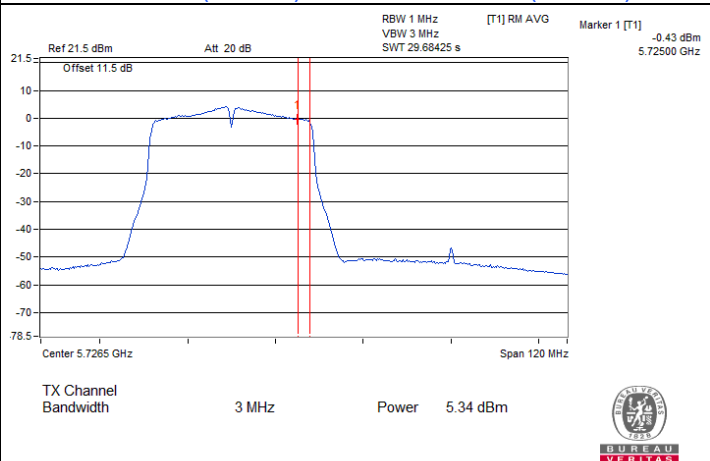
802.11ac (VHT40) / Chain 0: CH 142 (U-NII-2C)



802.11ac (VHT40) / Chain 0: CH 142 (U-NII-3)

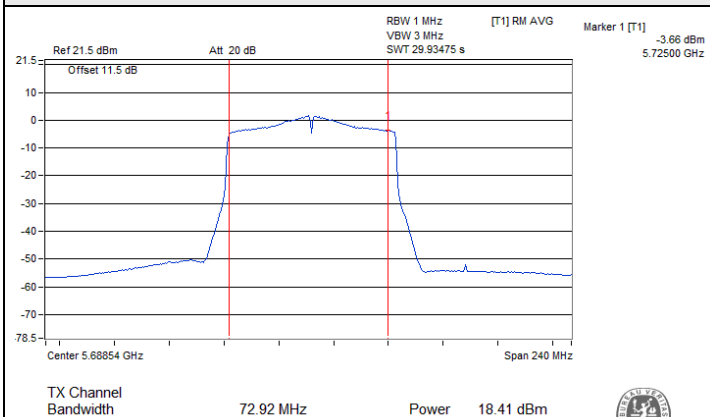


802.11ac (VHT40) / Chain 1: CH 142 (U-NII-2C)

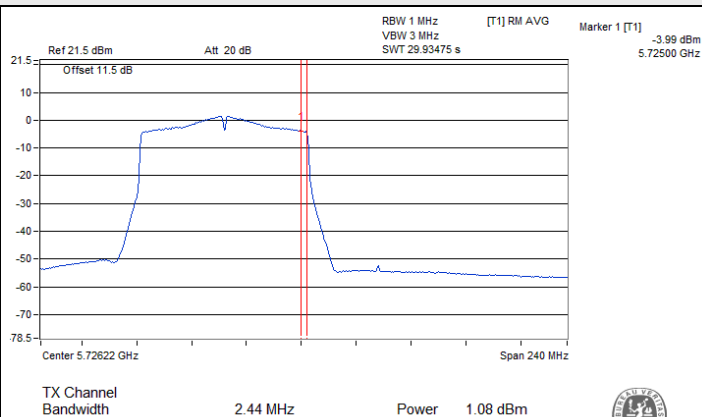


802.11ac (VHT40) / Chain 1: CH 142 (U-NII-3)

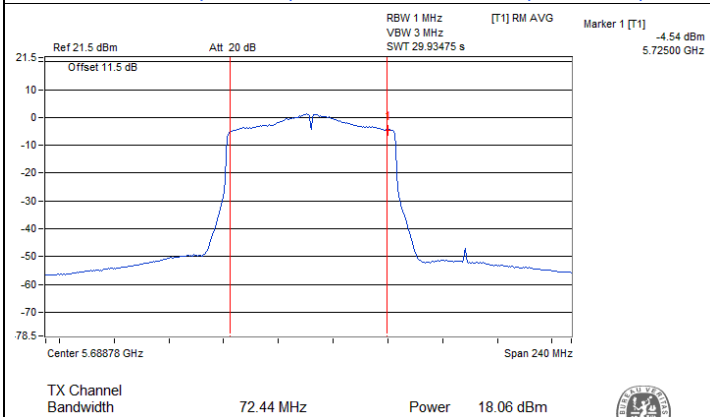
Spectrum Plot for channel straddling



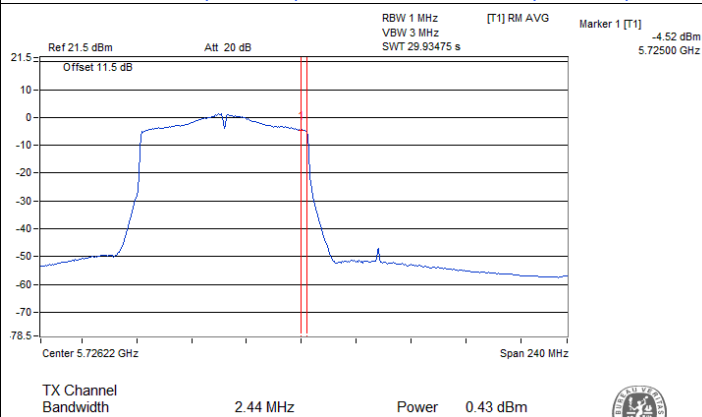
802.11ac (VHT80) / Chain 0: CH 138 (U-NII-2C)



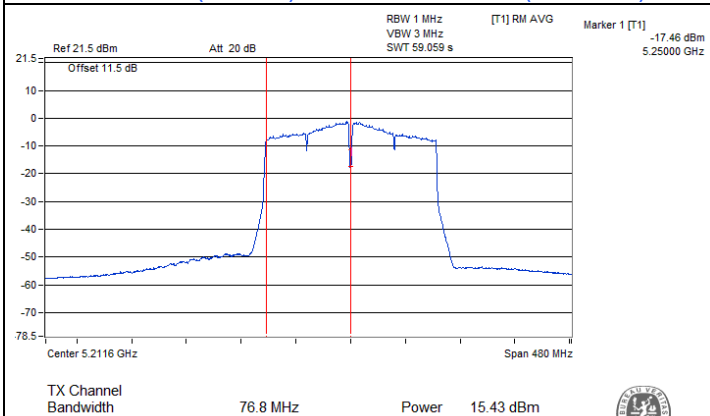
802.11ac (VHT80) / Chain 0: CH 138 (U-NII-3)



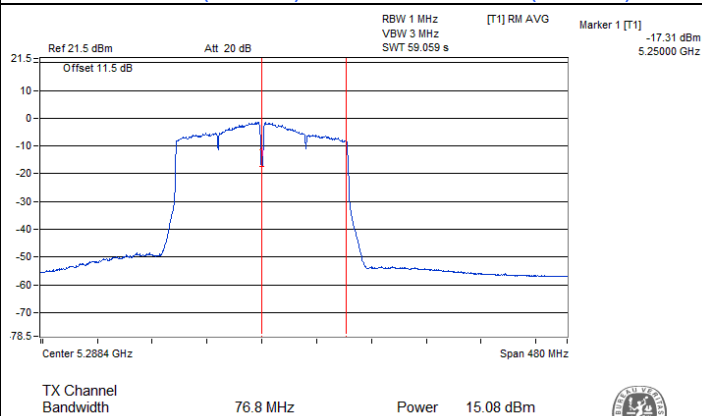
802.11ac (VHT80) / Chain 1: CH 138 (U-NII-2C)



802.11ac (VHT80) / Chain 1: CH 138 (U-NII-3)

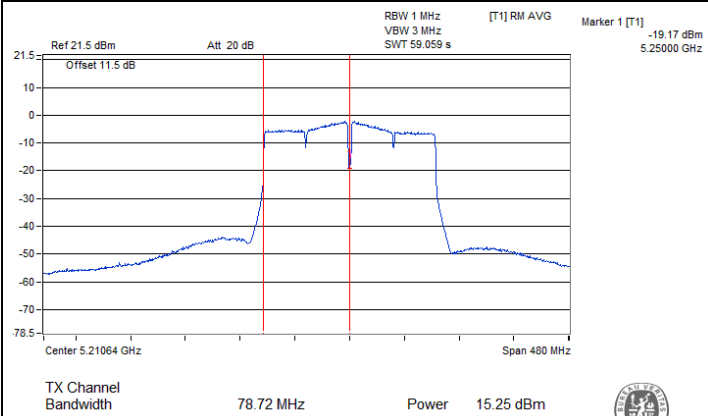


802.11ac (VHT160) / Chain 0: CH 50 (U-NII-1)

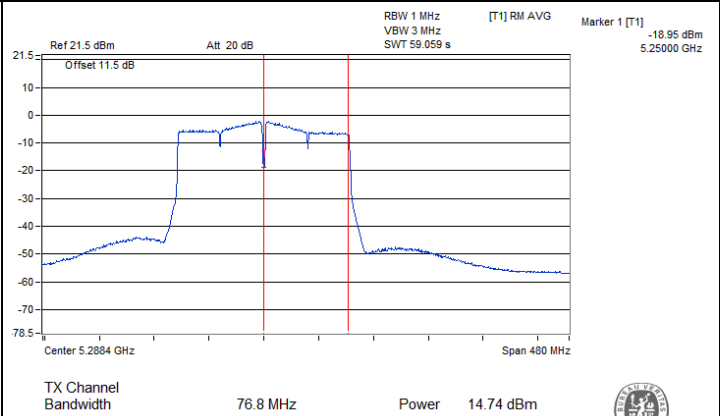


802.11ac (VHT160) / Chain 0: CH 50 (U-NII-2A)

Spectrum Plot for channel straddling



802.11ac (VHT160) / Chain 1: CH 50 (U-NII-1)



802.11ac (VHT160) / Chain 1: CH 50 (U-NII-2A)

7.3 Power Spectral Density

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin & Jisyong Wang
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802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	7.80	7.66	0.23	10.97	11	Pass
40	5200	7.78	7.66	0.23	10.96	11	Pass
48	5240	7.75	7.46	0.23	10.85	11	Pass
52	5260	7.77	7.56	0.23	10.91	11	Pass
60	5300	7.89	7.45	0.23	10.92	11	Pass
64	5320	7.84	7.49	0.23	10.91	11	Pass
100	5500	7.01	6.77	0.23	10.13	10.26	Pass
116	5580	7.14	6.82	0.23	10.22	10.26	Pass
140	5700	7.06	6.89	0.23	10.22	10.26	Pass
144 (U-NII-2C)	5720	7.04	6.93	0.23	10.23	10.26	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 6.74 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.74 - 6) = 10.26$ dBm/MHz.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	7.52	7.54	0.36	10.90	11	Pass
40	5200	7.65	7.31	0.36	10.85	11	Pass
48	5240	7.37	7.37	0.36	10.74	11	Pass
52	5260	7.44	7.17	0.36	10.68	11	Pass
60	5300	7.43	7.41	0.36	10.79	11	Pass
64	5320	7.30	7.14	0.36	10.59	11	Pass
100	5500	6.65	6.68	0.36	10.04	10.26	Pass
116	5580	6.59	6.47	0.36	9.90	10.26	Pass
140	5700	6.69	6.61	0.36	10.02	10.26	Pass
144 (U-NII-2C)	5720	6.78	6.68	0.36	10.10	10.26	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2]$
3. For U-NII-1, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 6.74 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.74 - 6) = 10.26$ dBm/MHz.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
38	5190	4.69	4.05	0.34	7.73	11	Pass
46	5230	5.53	5.17	0.34	8.70	11	Pass
54	5270	5.51	5.41	0.34	8.81	11	Pass
62	5310	4.70	4.54	0.34	7.97	11	Pass
102	5510	3.78	3.70	0.34	7.09	10.26	Pass
110	5550	3.82	3.87	0.34	7.20	10.26	Pass
134	5670	3.94	3.69	0.34	7.17	10.26	Pass
142 (U-NII-2C)	5710	4.05	3.69	0.34	7.22	10.26	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2]$
3. For U-NII-1, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 6.74 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.74 - 6) = 10.26$ dBm/MHz.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
42	5210	1.96	1.70	0.38	5.22	11	Pass
58	5290	1.74	1.64	0.38	5.08	11	Pass
106	5530	1.35	0.87	0.38	4.51	10.26	Pass
122	5610	1.35	0.93	0.38	4.54	10.26	Pass
138 (U-NII-2C)	5690	1.39	0.78	0.38	4.49	10.26	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.74 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.74 - 6) = 10.26$ dBm/MHz.

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
50 (U-NII-1)	5250	-1.99	-2.18	0.34	1.27	11	Pass
50 (U-NII-2A)	5250	-2.24	-2.24	0.34	1.11	11	Pass
114	5570	-2.17	-2.48	0.34	1.03	10.26	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.81 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.74 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.74 - 6) = 10.26$ dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
144 (U-NII-3)	5720	-3.96	-4.42	-1.17	0.23	1.28	28.84	Pass
149	5745	2.47	2.32	5.41	0.23	7.86	28.84	Pass
157	5785	2.28	2.21	5.26	0.23	7.71	28.84	Pass
165	5825	1.77	1.51	4.65	0.23	7.10	28.84	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 7.16 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.16 - 6) = 28.84$ dBm/500kHz.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
144 (U-NII-3)	5720	-4.78	-4.51	-1.63	0.36	0.95	28.84	Pass
149	5745	1.53	1.35	4.45	0.36	7.03	28.84	Pass
157	5785	1.31	1.13	4.23	0.36	6.81	28.84	Pass
165	5825	0.96	0.48	3.74	0.36	6.32	28.84	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 7.16 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.16 - 6) = 28.84$ dBm/500kHz.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
142 (U-NII-3)	5710	-8.51	-9.71	-6.06	0.34	-3.50	28.84	Pass
151	5755	-1.09	-1.19	1.87	0.34	4.43	28.84	Pass
159	5795	-1.27	-1.68	1.54	0.34	4.10	28.84	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 7.16 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.16 - 6) = 28.84$ dBm/500kHz.

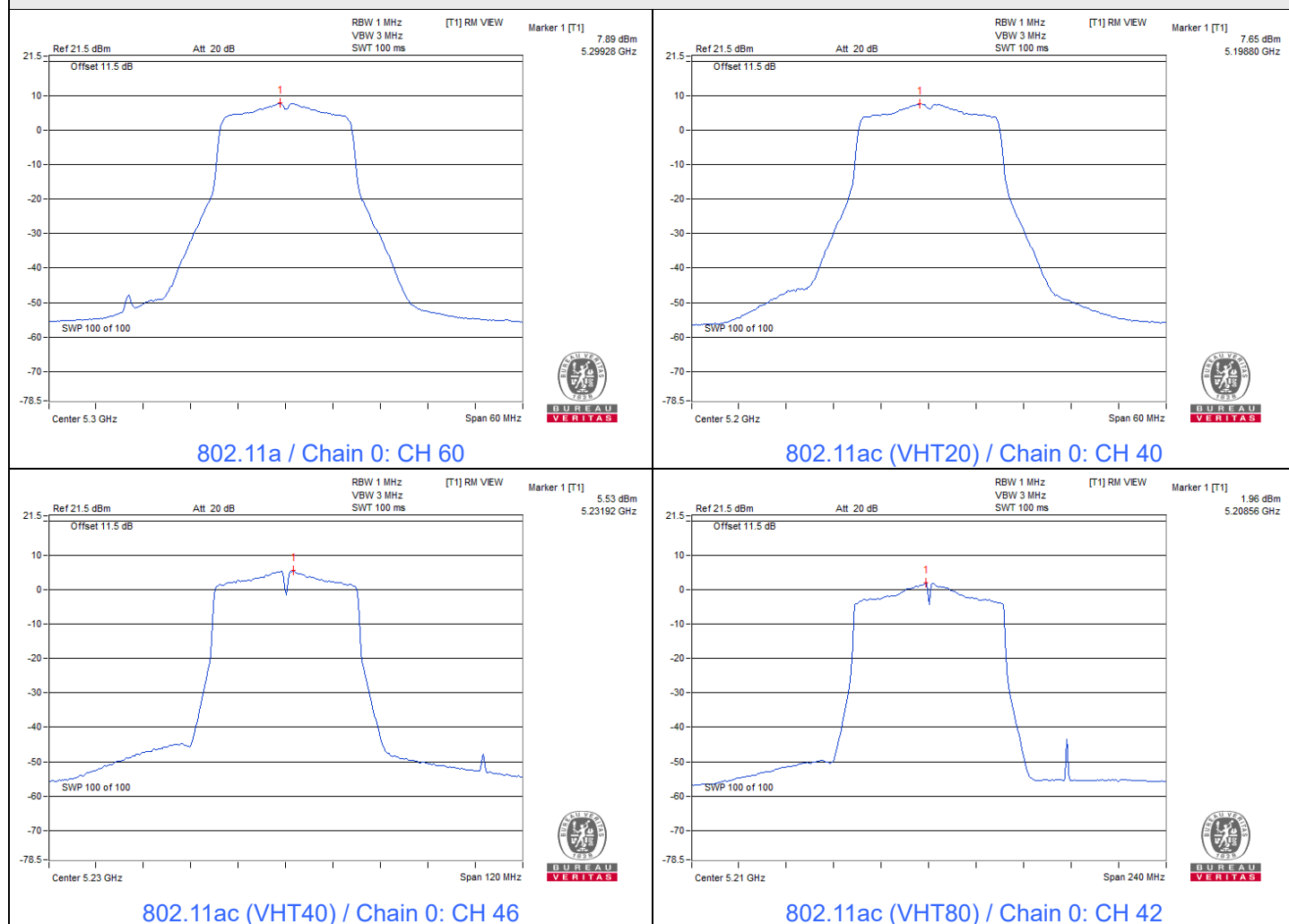
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
138 (U-NII-3)	5690	-13.25	-13.53	-10.38	0.38	-7.78	28.84	Pass
155	5775	-5.40	-5.94	-2.65	0.38	-0.05	28.84	Pass

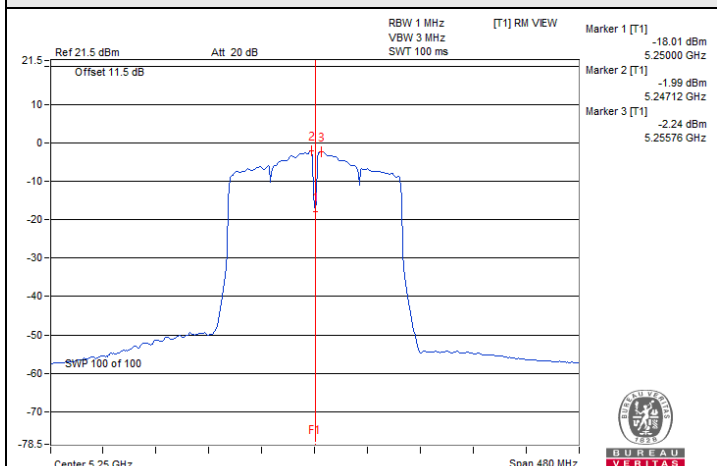
Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 7.16 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.16 - 6) = 28.84 \text{ dBm/500kHz}$.

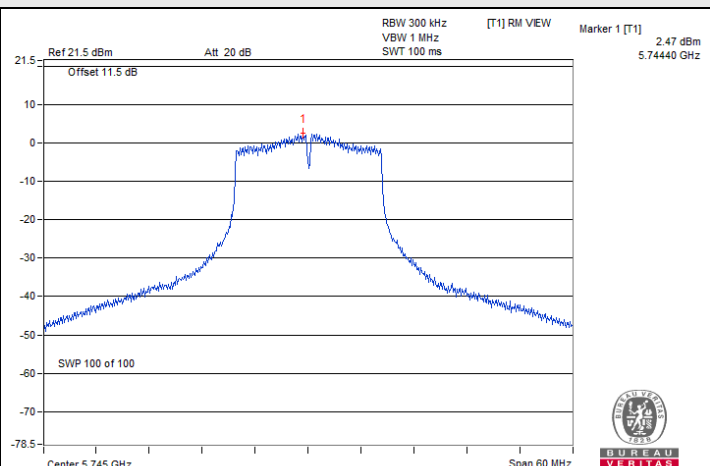
Spectrum Plot of Maximum Value



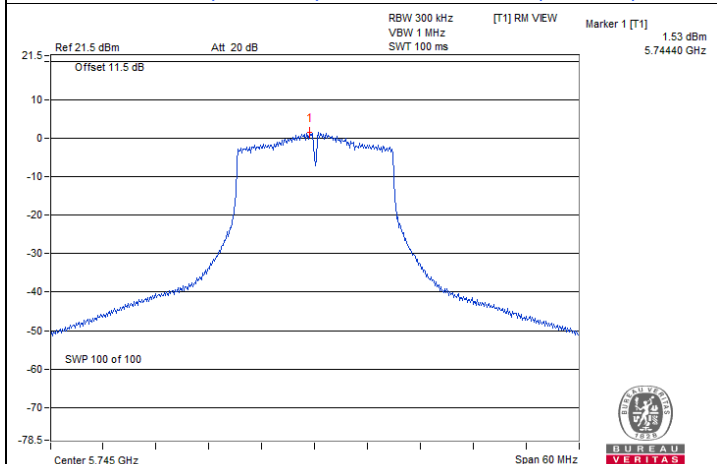
Spectrum Plot of Maximum Value



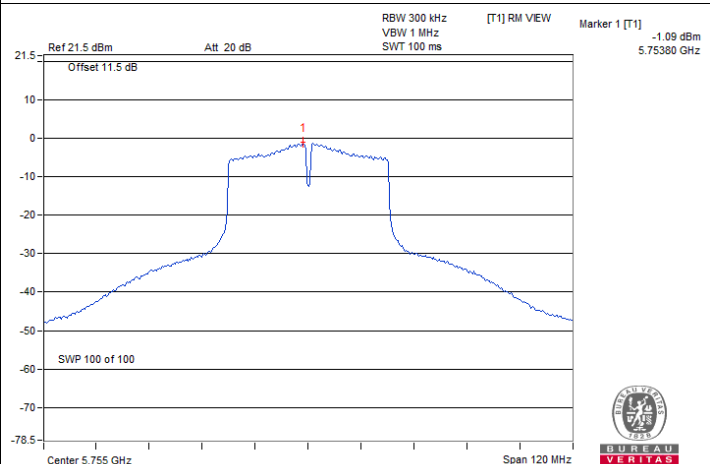
802.11ac (VHT160) / Chain 0: CH 50 (U-NII-1)



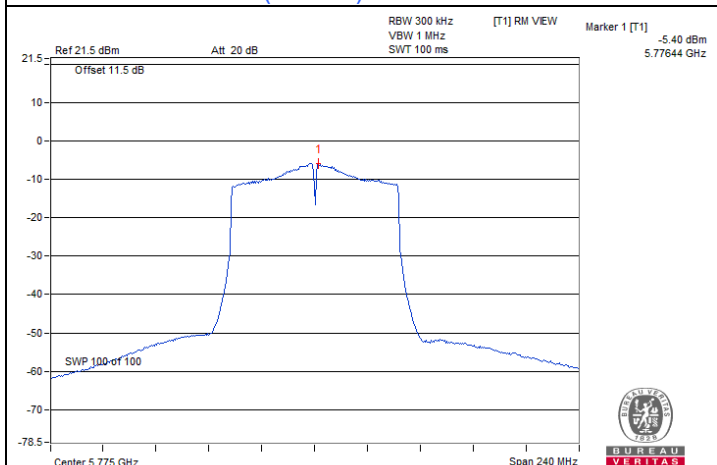
802.11a / Chain 0: CH 149



802.11ac (VHT20) / Chain 0: CH 149



802.11ac (VHT40) / Chain 0: CH 151



802.11ac (VHT80) / Chain 0: CH 155

7.4 6 dB Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	2.63	2.65	0.5	Pass
149	5745	15.11	15.14	0.5	Pass
157	5785	15.27	15.28	0.5	Pass
165	5825	15.14	15.24	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	2.59	2.64	0.5	Pass
149	5745	15.14	15.16	0.5	Pass
157	5785	15.26	15.30	0.5	Pass
165	5825	15.20	15.10	0.5	Pass

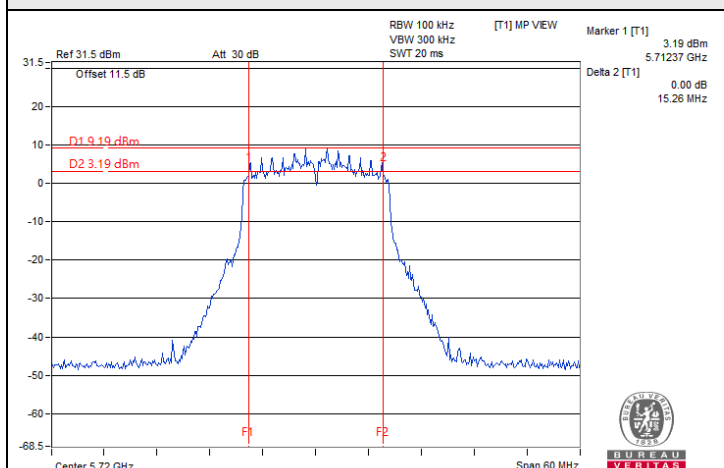
802.11ac (VHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	1.95	2.66	0.5	Pass
151	5755	35.85	33.11	0.5	Pass
159	5795	35.42	32.91	0.5	Pass

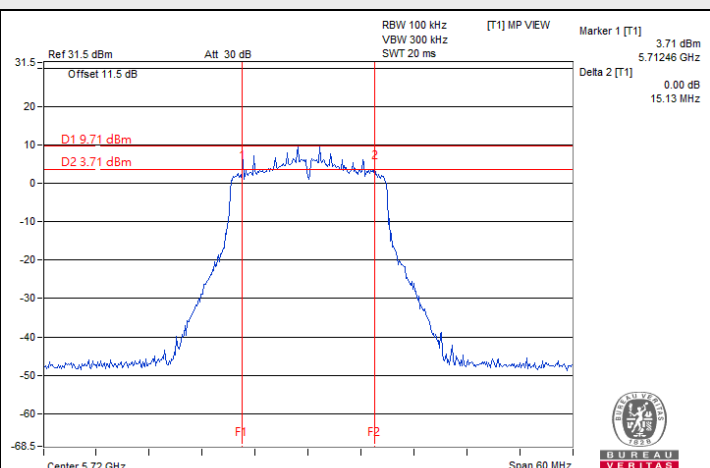
802.11ac (VHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	2.72	1.51	0.5	Pass
155	5775	70.12	56.41	0.5	Pass

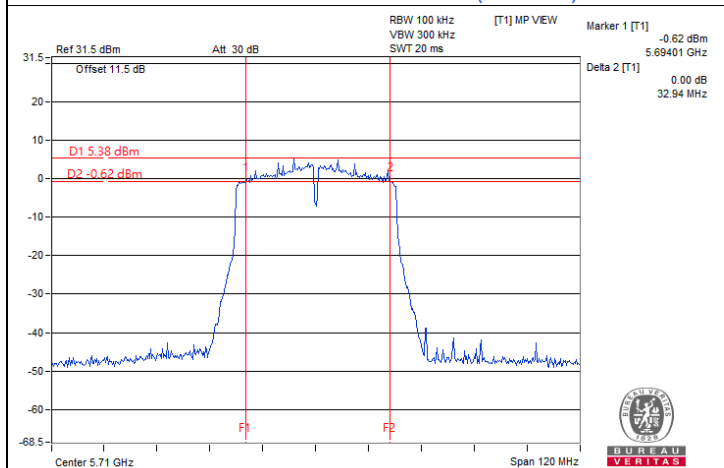
Spectrum Plot of Minimum Value



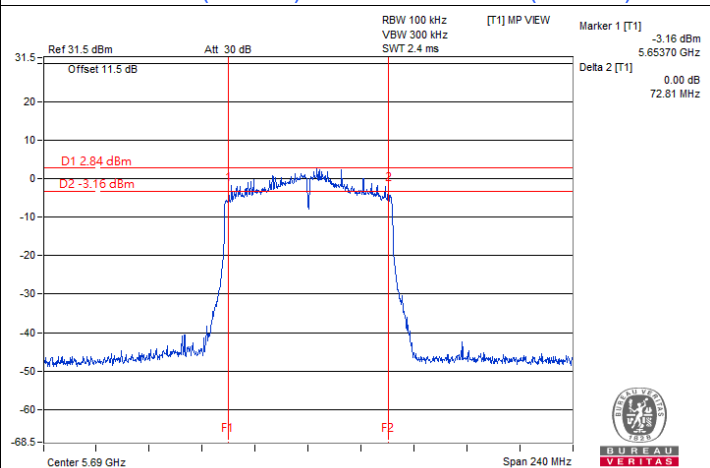
802.11a / Chain 0: CH 144 (U-NII-3)



802.11ac (VHT20) / Chain 0: CH 144 (U-NII-3)



802.11ac (VHT40) / Chain 0: CH 142 (U-NII-3)



802.11ac (VHT80) / Chain 1: CH 138 (U-NII-3)

Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.5 Occupied Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.32	16.32
40	5200	16.32	16.32
48	5240	16.32	16.32
52	5260	16.32	16.32
60	5300	16.32	16.32
64	5320	16.32	16.32
100	5500	16.32	16.32
116	5580	16.32	16.32
140	5700	16.32	16.32
144 (U-NII-2C)	5720	13.16	13.16
144 (U-NII-3)	5720	3.16	3.22
149	5745	16.38	16.80
157	5785	16.32	16.80
165	5825	16.32	16.56

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.52	17.52
40	5200	17.52	17.52
48	5240	17.52	17.52
52	5260	17.52	17.52
60	5300	17.52	17.52
64	5320	17.52	17.52
100	5500	17.52	17.52
116	5580	17.52	17.52
140	5700	17.52	17.52
144 (U-NII-2C)	5720	13.76	13.76
144 (U-NII-3)	5720	3.76	3.76
149	5745	17.58	17.82
157	5785	17.52	17.88
165	5825	17.52	17.64

802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.00	36.00
46	5230	36.00	36.00
54	5270	36.00	36.00
62	5310	36.00	36.00
102	5510	36.00	36.00
110	5550	36.00	36.00
134	5670	36.00	36.00
142 (U-NII-2C)	5710	33.00	33.00
142 (U-NII-3)	5710	3.00	3.00
151	5755	36.48	36.96
159	5795	36.48	36.72

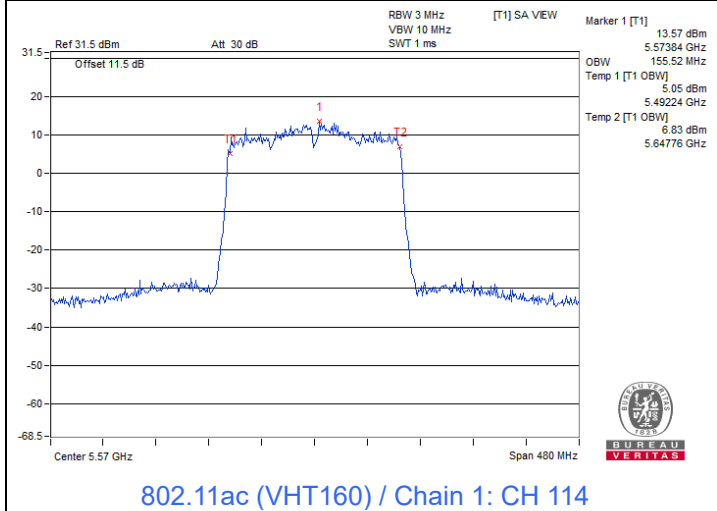
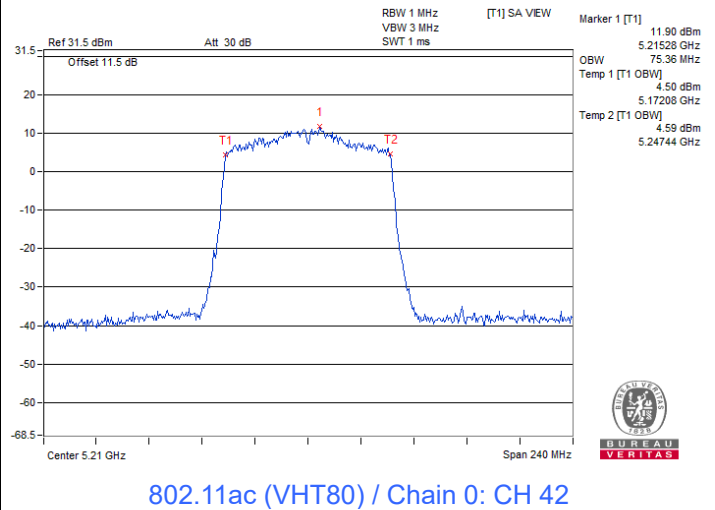
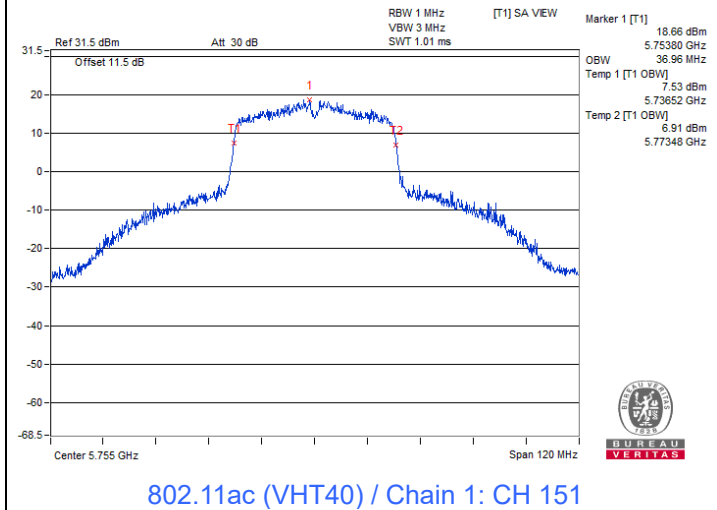
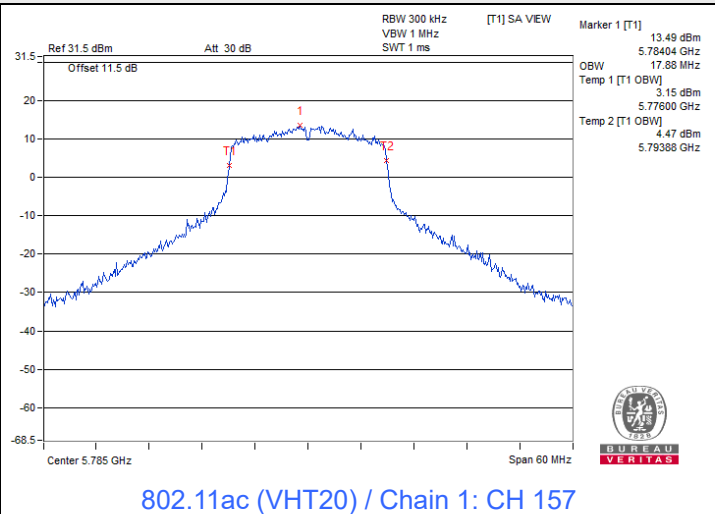
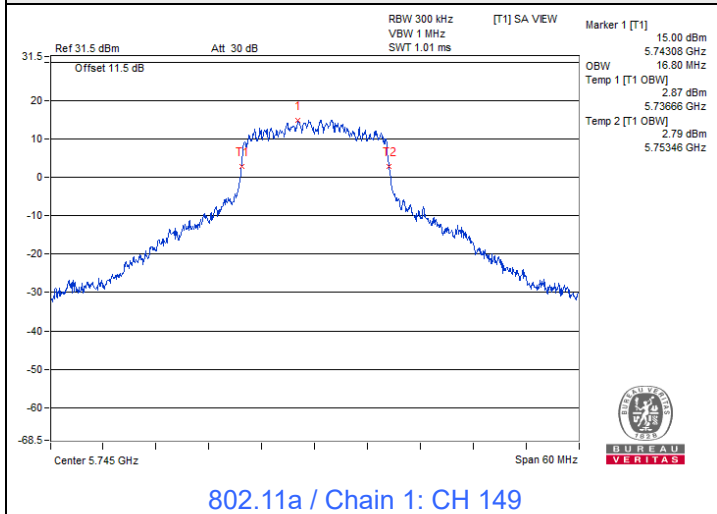
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.36	74.88
58	5290	75.36	74.40
106	5530	75.12	74.88
122	5610	74.88	74.88
138 (U-NII-2C)	5690	72.92	72.44
138 (U-NII-3)	5690	2.44	2.44
155	5775	75.12	75.12

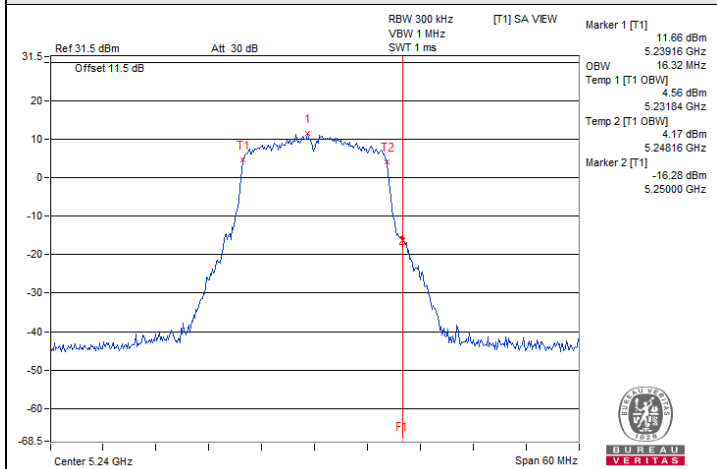
802.11ac (VHT160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	76.80	78.72
50 (U-NII-2A)	5250	76.80	76.80
114	5570	153.60	155.52

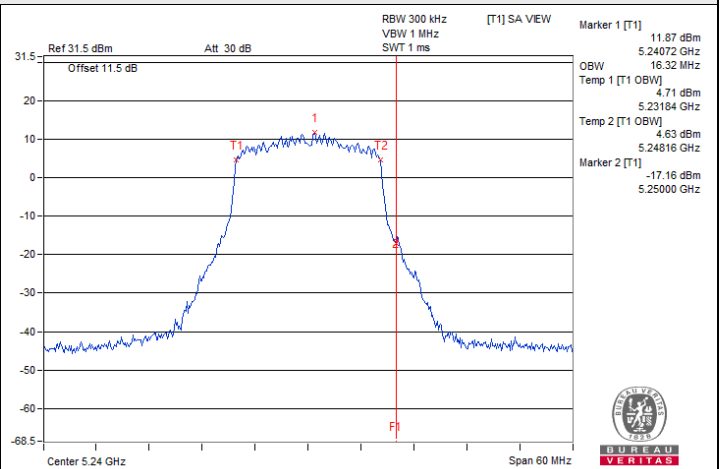
Spectrum Plot of Maximum Value



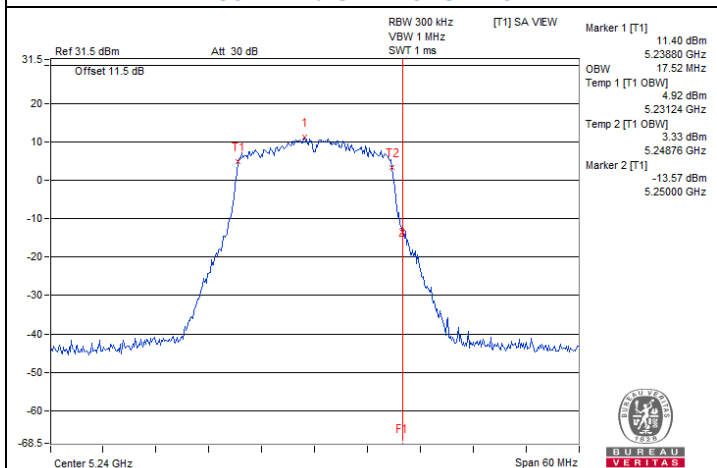
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



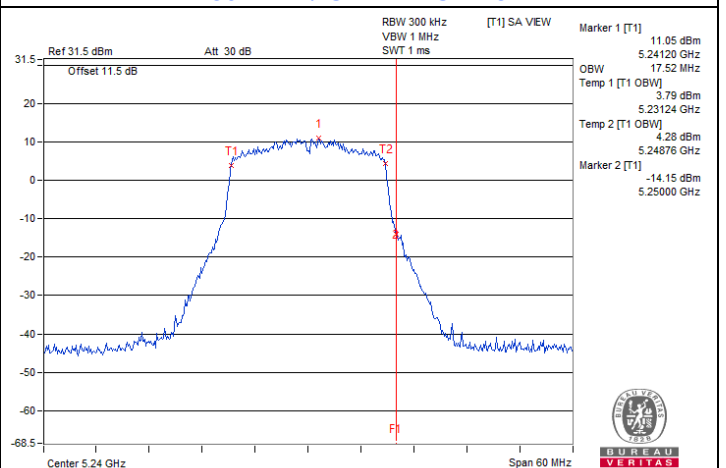
802.11a / Chain 0: CH 48



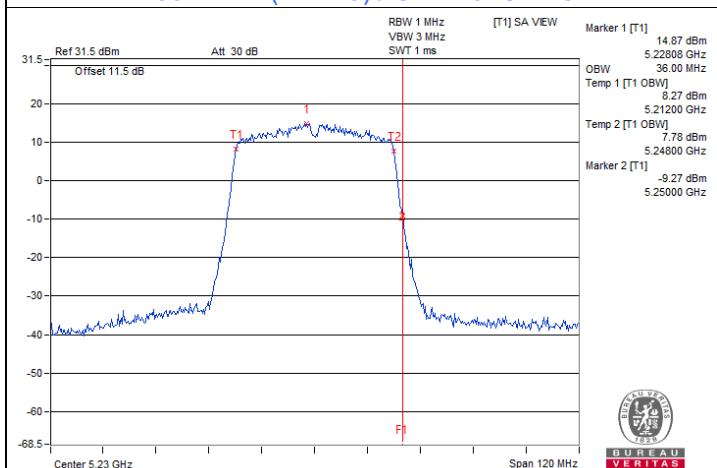
802.11a / Chain 1: CH 48



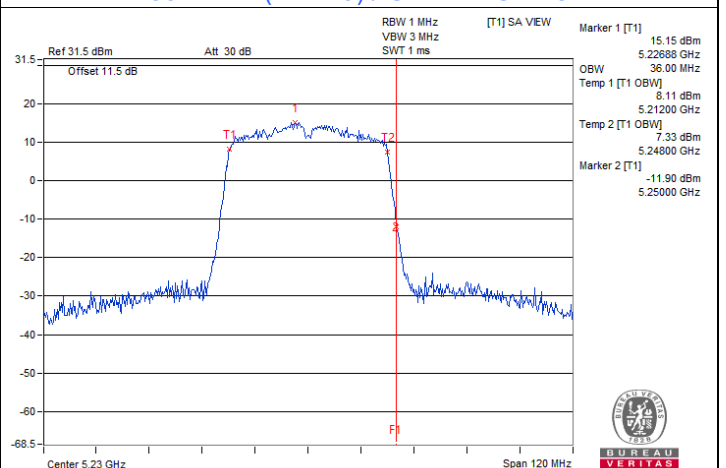
802.11ac (VHT20) / Chain 0: CH 48



802.11ac (VHT20) / Chain 1: CH 48

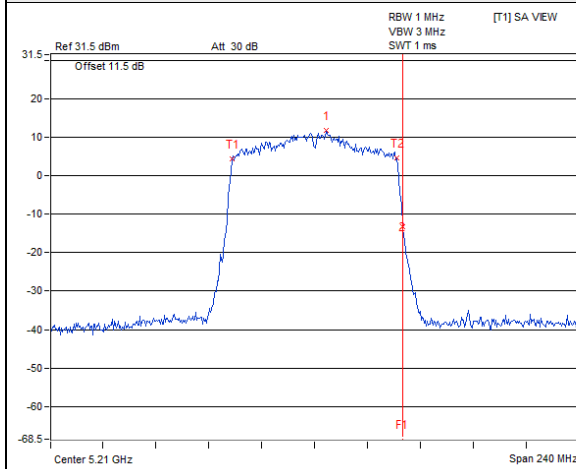


802.11ac (VHT40) / Chain 0: CH 46

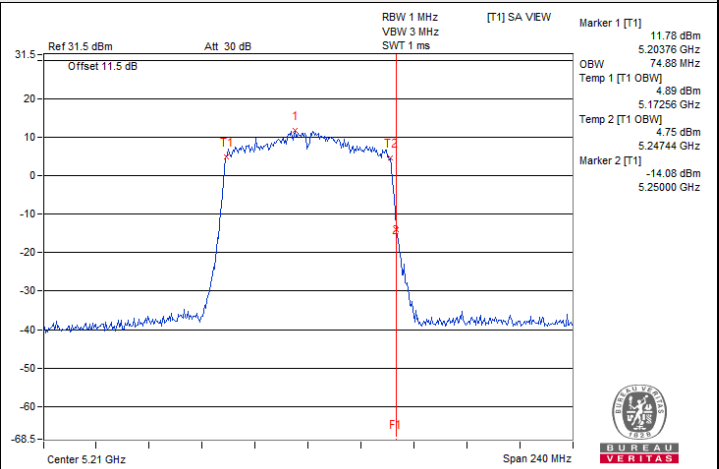


802.11ac (VHT40) / Chain 1: CH 46

Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



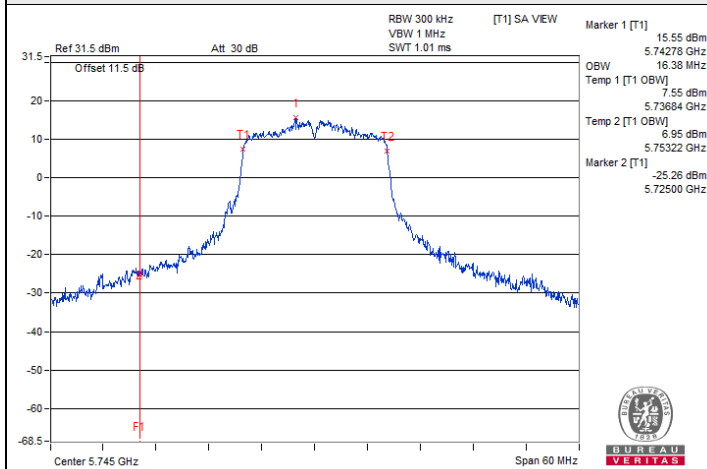
802.11ac (VHT80) / Chain 0: CH 42



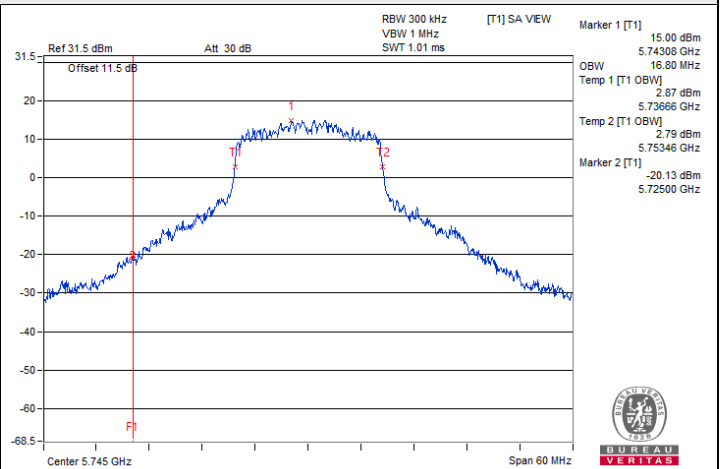
802.11ac (VHT80) / Chain 1: CH 42



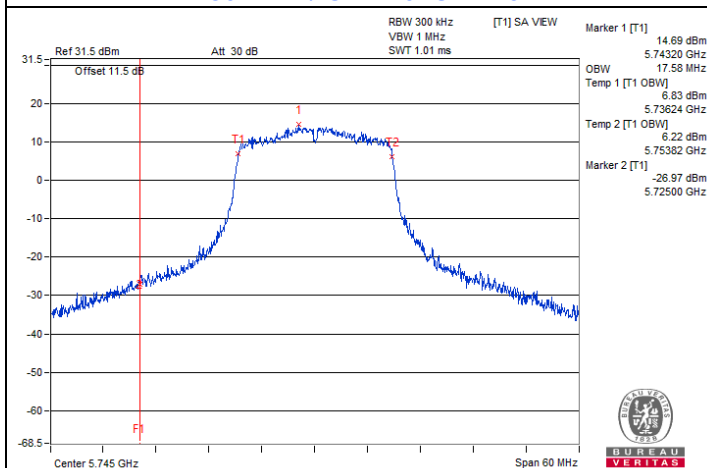
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



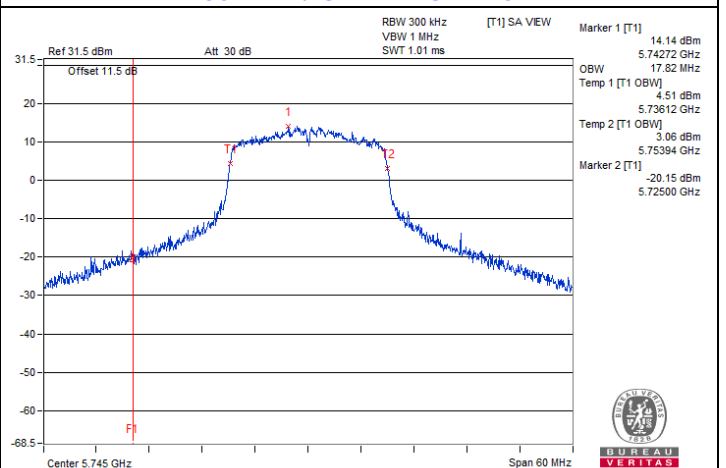
802.11a / Chain 0: CH 149



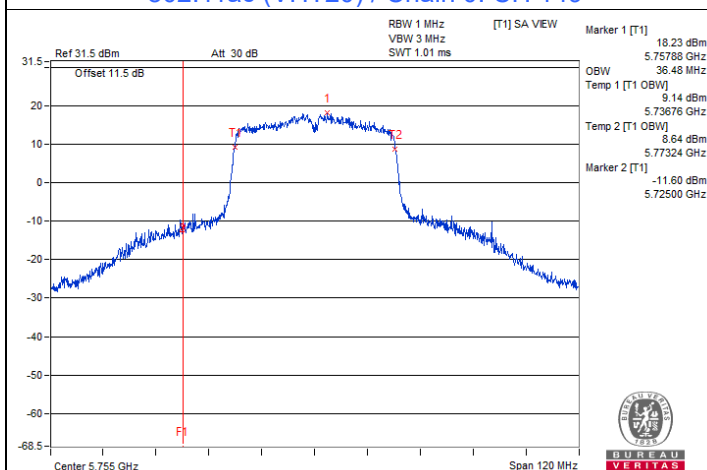
802.11a / Chain 1: CH 149



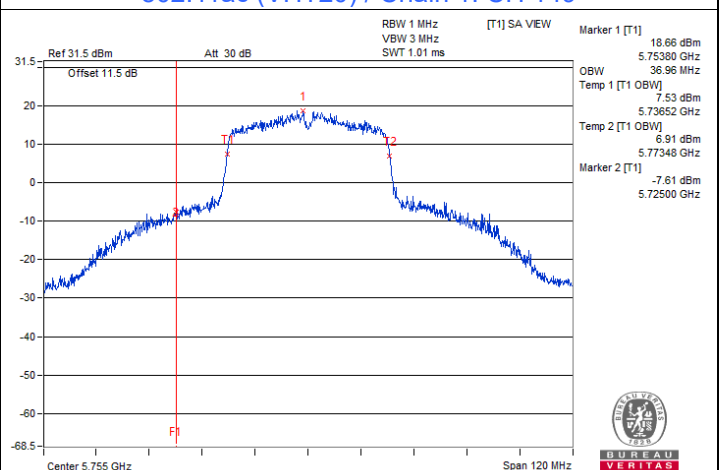
802.11ac (VHT20) / Chain 0: CH 149



802.11ac (VHT20) / Chain 1: CH 149

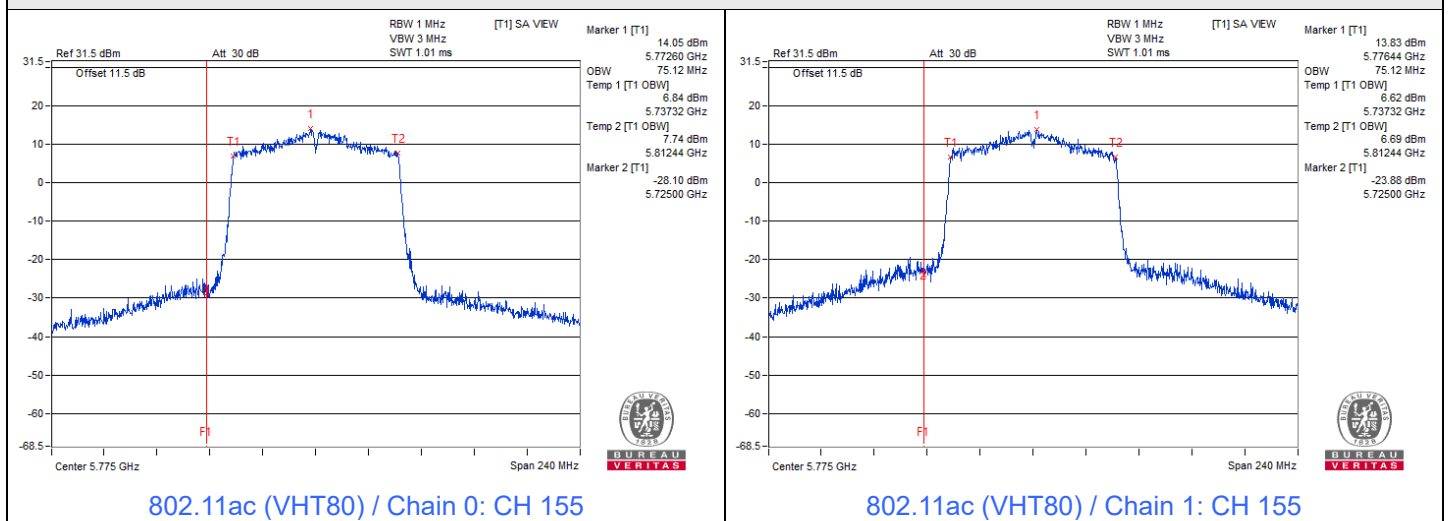


802.11ac (VHT40) / Chain 0: CH 151



802.11ac (VHT40) / Chain 1: CH 151

Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



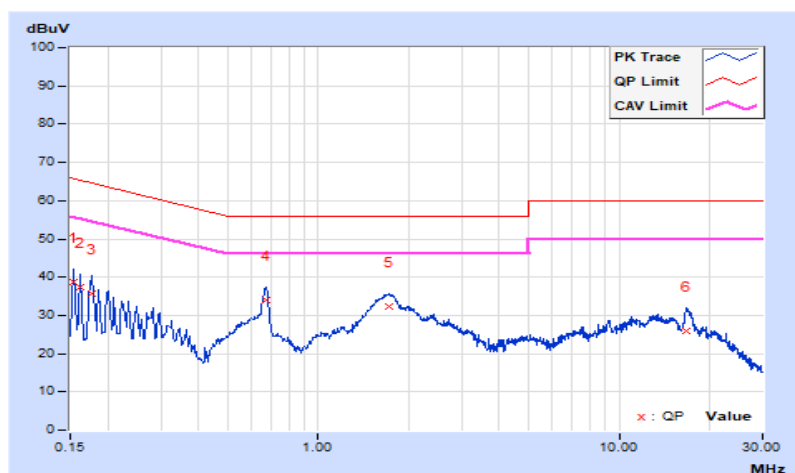
7.6 AC Power Conducted Emissions

RF Mode	802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	9.68	28.94	15.09	38.62	24.77	65.78	55.78	-27.16	-31.01
2	0.16190	9.69	27.82	14.52	37.51	24.21	65.37	55.37	-27.86	-31.16
3	0.17800	9.70	25.92	13.27	35.62	22.97	64.58	54.58	-28.96	-31.61
4	0.66811	9.71	24.37	22.44	34.08	32.15	56.00	46.00	-21.92	-13.85
5	1.72600	9.76	22.70	21.11	32.46	30.87	56.00	46.00	-23.54	-15.13
6	16.82600	9.90	16.07	10.32	25.97	20.22	60.00	50.00	-34.03	-29.78

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

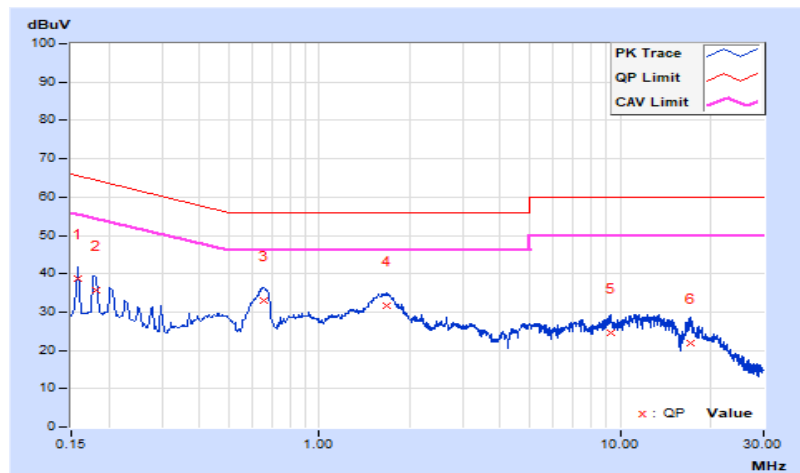


RF Mode	802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15800	9.66	29.07	18.62	38.73	28.28	65.57	55.57	-26.84	-27.29
2	0.18200	9.66	26.06	17.60	35.72	27.26	64.39	54.39	-28.67	-27.13
3	0.65245	9.72	23.29	21.62	33.01	31.34	56.00	46.00	-22.99	-14.66
4	1.67400	9.78	22.01	20.48	31.79	30.26	56.00	46.00	-24.21	-15.74
5	9.35000	9.88	14.82	9.87	24.70	19.75	60.00	50.00	-35.30	-30.25
6	17.17800	10.06	11.69	5.66	21.75	15.72	60.00	50.00	-38.25	-34.28

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



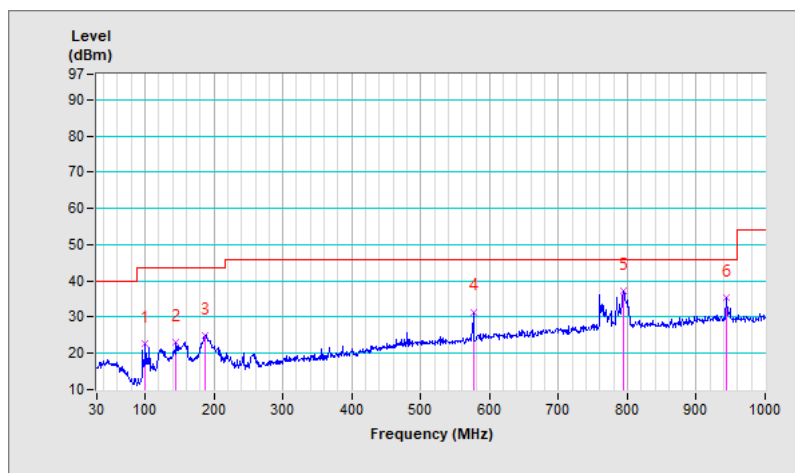
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.84	22.8 QP	43.5	-20.7	1.99 H	305	40.3	-17.5
2	144.46	23.1 QP	43.5	-20.4	1.99 H	42	36.2	-13.1
3	187.14	25.1 QP	43.5	-18.4	1.99 H	238	40.4	-15.3
4	576.11	31.5 QP	46.0	-14.5	1.49 H	358	37.4	-5.9
5	794.36	37.2 QP	46.0	-8.8	1.00 H	145	39.3	-2.1
6	943.74	35.4 QP	46.0	-10.6	1.00 H	84	35.3	0.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

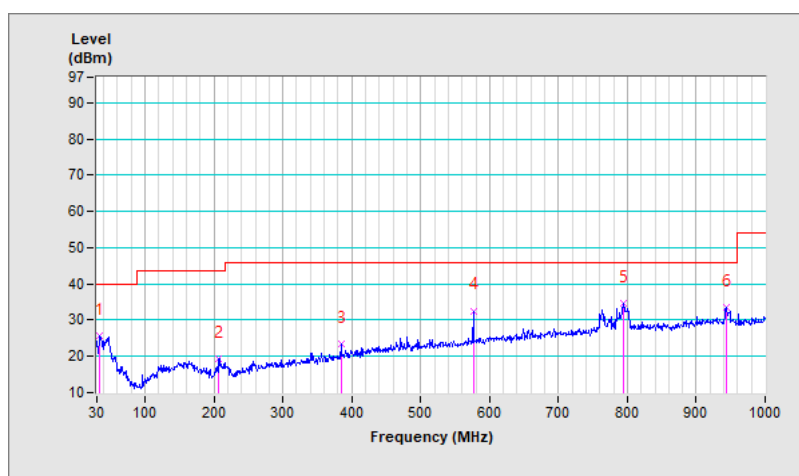


RF Mode	802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.88	25.8 QP	40.0	-14.2	1.01 V	150	39.9	-14.1
2	206.54	19.4 QP	43.5	-24.1	1.51 V	232	35.6	-16.2
3	384.05	23.6 QP	46.0	-22.4	1.51 V	280	33.9	-10.3
4	576.11	32.6 QP	46.0	-13.4	1.01 V	203	38.5	-5.9
5	794.36	34.6 QP	46.0	-11.4	2.00 V	5	36.7	-2.1
6	943.74	33.5 QP	46.0	-12.5	1.51 V	97	33.4	0.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.8 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.7 PK	74.0	-9.3	1.22 H	272	60.2	4.5
2	5150.00	50.9 AV	54.0	-3.1	1.22 H	272	46.4	4.5
3	*5180.00	116.5 PK			1.22 H	272	74.1	42.4
4	*5180.00	106.7 AV			1.22 H	272	64.3	42.4
5	#10360.00	59.5 PK	68.2	-8.7	1.56 H	149	47.9	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.7 PK	74.0	-11.3	1.00 V	124	58.2	4.5
2	5150.00	49.3 AV	54.0	-4.7	1.00 V	124	44.8	4.5
3	*5180.00	114.3 PK			1.00 V	124	71.9	42.4
4	*5180.00	104.6 AV			1.00 V	124	62.2	42.4
5	#10360.00	58.4 PK	68.2	-9.8	3.34 V	182	46.8	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	117.9 PK			1.26 H	274	75.4	42.5
2	*5200.00	108.2 AV			1.26 H	274	65.7	42.5
3	#10400.00	59.6 PK	68.2	-8.6	1.53 H	147	48.3	11.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	115.9 PK			1.12 V	125	73.4	42.5
2	*5200.00	106.1 AV			1.12 V	125	63.6	42.5
3	#10400.00	58.4 PK	68.2	-9.8	3.34 V	183	47.1	11.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	117.9 PK			1.28 H	277	75.3	42.6
2	*5240.00	108.0 AV			1.28 H	277	65.4	42.6
3	5350.00	56.2 PK	74.0	-17.8	1.28 H	277	51.9	4.3
4	5350.00	42.8 AV	54.0	-11.2	1.28 H	277	38.5	4.3
5	#10480.00	59.5 PK	68.2	-8.7	1.55 H	143	48.1	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	115.6 PK			1.04 V	121	73.0	42.6
2	*5240.00	105.8 AV			1.04 V	121	63.2	42.6
3	5350.00	55.7 PK	74.0	-18.3	1.04 V	121	51.4	4.3
4	5350.00	42.6 AV	54.0	-11.4	1.04 V	121	38.3	4.3
5	#10480.00	58.3 PK	68.2	-9.9	3.32 V	185	46.9	11.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.5 PK	74.0	-17.5	1.36 H	270	52.0	4.5
2	5150.00	43.5 AV	54.0	-10.5	1.36 H	270	39.0	4.5
3	*5260.00	116.6 PK			1.36 H	270	74.0	42.6
4	*5260.00	107.1 AV			1.36 H	270	64.5	42.6
5	#10520.00	59.0 PK	68.2	-9.2	1.52 H	143	47.7	11.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	1.11 V	123	51.8	4.5
2	5150.00	43.2 AV	54.0	-10.8	1.11 V	123	38.7	4.5
3	*5260.00	114.4 PK			1.11 V	123	71.8	42.6
4	*5260.00	105.2 AV			1.11 V	123	62.6	42.6
5	#10520.00	58.1 PK	68.2	-10.1	3.26 V	170	46.8	11.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	117.1 PK			1.24 H	278	74.5	42.6
2	*5300.00	107.3 AV			1.24 H	278	64.7	42.6
3	10600.00	58.8 PK	74.0	-15.2	1.62 H	143	47.8	11.0
4	10600.00	47.5 AV	54.0	-6.5	1.62 H	143	36.5	11.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	114.9 PK			1.03 V	119	72.3	42.6
2	*5300.00	105.1 AV			1.03 V	119	62.5	42.6
3	10600.00	58.4 PK	74.0	-15.6	3.09 V	189	47.4	11.0
4	10600.00	46.9 AV	54.0	-7.1	3.09 V	189	35.9	11.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.3 PK			1.16 H	277	73.8	42.5
2	*5320.00	106.5 AV			1.16 H	277	64.0	42.5
3	5350.00	65.5 PK	74.0	-8.5	1.16 H	277	61.2	4.3
4	5350.00	50.6 AV	54.0	-3.4	1.16 H	277	46.3	4.3
5	10640.00	58.5 PK	74.0	-15.5	1.50 H	152	47.5	11.0
6	10640.00	47.4 AV	54.0	-6.6	1.50 H	152	36.4	11.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.5 PK			1.00 V	118	73.0	42.5
2	*5320.00	106.2 AV			1.00 V	118	63.7	42.5
3	5350.00	64.7 PK	74.0	-9.3	1.00 V	118	60.4	4.3
4	5350.00	50.5 AV	54.0	-3.5	1.00 V	118	46.2	4.3
5	10640.00	57.9 PK	74.0	-16.1	3.36 V	169	46.9	11.0
6	10640.00	46.8 AV	54.0	-7.2	3.36 V	169	35.8	11.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.1 PK	74.0	-15.9	1.04 H	266	53.5	4.6
2	5460.00	45.0 AV	54.0	-9.0	1.04 H	266	40.4	4.6
3	#5470.00	65.0 PK	68.2	-3.2	1.04 H	360	60.4	4.6
4	*5500.00	117.8 PK			1.04 H	266	75.1	42.7
5	*5500.00	108.0 AV			1.04 H	266	65.3	42.7
6	11000.00	59.2 PK	74.0	-14.8	1.59 H	143	47.6	11.6
7	11000.00	47.0 AV	54.0	-7.0	1.59 H	143	35.4	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.7 PK	74.0	-16.3	1.13 V	124	53.1	4.6
2	5460.00	44.3 AV	54.0	-9.7	1.13 V	124	39.7	4.6
3	#5470.00	63.5 PK	68.2	-4.7	1.13 V	124	58.9	4.6
4	*5500.00	115.6 PK			1.13 V	124	72.9	42.7
5	*5500.00	105.9 AV			1.13 V	124	63.2	42.7
6	11000.00	58.3 PK	74.0	-15.7	3.34 V	186	46.7	11.6
7	11000.00	46.2 AV	54.0	-7.8	3.34 V	186	34.6	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.0 PK			1.24 H	269	76.2	42.8
2	*5580.00	109.2 AV			1.24 H	269	66.4	42.8
3	11160.00	60.0 PK	74.0	-14.0	1.59 H	142	48.3	11.7
4	11160.00	47.9 AV	54.0	-6.1	1.59 H	142	36.2	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	116.7 PK			1.03 V	127	73.9	42.8
2	*5580.00	107.0 AV			1.03 V	127	64.2	42.8
3	11160.00	58.8 PK	74.0	-15.2	3.31 V	178	47.1	11.7
4	11160.00	46.6 AV	54.0	-7.4	3.31 V	178	34.9	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	117.9 PK			1.18 H	259	74.0	43.9
2	*5700.00	108.2 AV			1.18 H	259	64.3	43.9
3	#5725.00	64.9 PK	68.2	-3.3	1.18 H	259	59.1	5.8
4	11400.00	60.0 PK	74.0	-14.0	1.56 H	144	47.8	12.2
5	11400.00	47.8 AV	54.0	-6.2	1.56 H	144	35.6	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	115.7 PK			1.05 V	128	71.8	43.9
2	*5700.00	106.0 AV			1.05 V	128	62.1	43.9
3	#5725.00	63.2 PK	68.2	-5.0	1.05 V	128	57.4	5.8
4	11400.00	58.8 PK	74.0	-15.2	3.32 V	184	46.6	12.2
5	11400.00	46.7 AV	54.0	-7.3	3.32 V	184	34.5	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.3 PK	68.2	-11.9	1.26 H	264	51.7	4.6
2	*5720.00	119.8 PK			1.26 H	264	76.0	43.8
3	*5720.00	110.1 AV			1.26 H	264	66.3	43.8
4	#5850.00	58.0 PK	68.2	-10.2	1.26 H	264	51.8	6.2
5	11440.00	60.1 PK	74.0	-13.9	1.51 H	149	47.9	12.2
6	11440.00	48.0 AV	54.0	-6.0	1.51 H	149	35.8	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	55.9 PK	68.2	-12.3	1.01 V	133	51.3	4.6
2	*5720.00	117.5 PK			1.01 V	133	73.7	43.8
3	*5720.00	107.8 AV			1.01 V	133	64.0	43.8
4	#5850.00	57.4 PK	68.2	-10.8	1.01 V	133	51.2	6.2
5	11440.00	58.9 PK	74.0	-15.1	3.38 V	178	46.7	12.2
6	11440.00	46.7 AV	54.0	-7.3	3.38 V	178	34.5	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5745.00	119.9 PK			1.02 H	268	76.2	43.7
2	*5745.00	110.3 AV			1.02 H	268	66.6	43.7
3	11490.00	59.9 PK	74.0	-14.1	1.59 H	143	47.6	12.3
4	11490.00	47.7 AV	54.0	-6.3	1.59 H	143	35.4	12.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5745.00	116.2 PK			1.16 V	158	72.5	43.7
2	*5745.00	106.9 AV			1.16 V	158	63.2	43.7
3	11490.00	59.0 PK	74.0	-15.0	3.33 V	187	46.7	12.3
4	11490.00	46.9 AV	54.0	-7.1	3.33 V	187	34.6	12.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5785.00	120.8 PK			1.11 H	266	76.8	44.0
2	*5785.00	111.3 AV			1.11 H	266	67.3	44.0
3	11570.00	60.3 PK	74.0	-13.7	1.52 H	140	47.7	12.6
4	11570.00	48.1 AV	54.0	-5.9	1.52 H	140	35.5	12.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5785.00	116.2 PK			1.14 V	153	72.2	44.0
2	*5785.00	107.0 AV			1.14 V	153	63.0	44.0
3	11570.00	59.4 PK	74.0	-14.6	3.36 V	174	46.8	12.6
4	11570.00	47.4 AV	54.0	-6.6	3.36 V	174	34.8	12.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5825.00	121.3 PK			1.10 H	264	77.1	44.2
2	*5825.00	111.9 AV			1.10 H	264	67.7	44.2
3	11650.00	59.9 PK	74.0	-14.1	1.61 H	150	47.5	12.4
4	11650.00	47.8 AV	54.0	-6.2	1.61 H	150	35.4	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5825.00	116.2 PK			1.20 V	63	72.0	44.2
2	*5825.00	107.4 AV			1.20 V	63	63.2	44.2
3	11650.00	58.9 PK	74.0	-15.1	3.38 V	188	46.5	12.4
4	11650.00	46.9 AV	54.0	-7.1	3.38 V	188	34.5	12.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	1.23 H	271	60.9	4.5
2	5150.00	51.0 AV	54.0	-3.0	1.23 H	271	46.5	4.5
3	*5180.00	115.3 PK			1.23 H	271	72.9	42.4
4	*5180.00	105.0 AV			1.23 H	271	62.6	42.4
5	#10360.00	59.3 PK	68.2	-8.9	1.58 H	144	47.7	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.4 PK	74.0	-11.6	1.07 V	124	57.9	4.5
2	5150.00	49.9 AV	54.0	-4.1	1.07 V	124	45.4	4.5
3	*5180.00	113.5 PK			1.07 V	124	71.1	42.4
4	*5180.00	103.0 AV			1.07 V	124	60.6	42.4
5	#10360.00	58.5 PK	68.2	-9.7	3.37 V	186	46.9	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	118.9 PK			1.24 H	275	76.4	42.5
2	*5200.00	108.4 AV			1.24 H	275	65.9	42.5
3	#10400.00	59.3 PK	68.2	-8.9	1.55 H	142	48.0	11.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	116.7 PK			1.06 V	122	74.2	42.5
2	*5200.00	106.2 AV			1.06 V	122	63.7	42.5
3	#10400.00	58.1 PK	68.2	-10.1	3.35 V	189	46.8	11.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	118.5 PK			1.28 H	278	75.9	42.6
2	*5240.00	108.1 AV			1.28 H	278	65.5	42.6
3	5350.00	56.0 PK	74.0	-18.0	1.28 H	278	51.7	4.3
4	5350.00	43.2 AV	54.0	-10.8	1.28 H	278	38.9	4.3
5	#10480.00	59.2 PK	68.2	-9.0	1.58 H	147	47.8	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	116.2 PK			1.08 V	123	73.6	42.6
2	*5240.00	105.7 AV			1.08 V	123	63.1	42.6
3	5350.00	55.8 PK	74.0	-18.2	1.08 V	123	51.5	4.3
4	5350.00	43.0 AV	54.0	-11.0	1.08 V	123	38.7	4.3
5	#10480.00	58.2 PK	68.2	-10.0	3.32 V	179	46.8	11.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	1.18 H	278	51.3	4.5
2	5150.00	42.0 AV	54.0	-12.0	1.18 H	278	37.5	4.5
3	*5260.00	120.1 PK			1.18 H	278	77.5	42.6
4	*5260.00	107.8 AV			1.18 H	278	65.2	42.6
5	#10520.00	59.0 PK	68.2	-9.2	1.62 H	141	47.7	11.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5260.00	119.1 PK			1.07 V	127	76.5	42.6
2	*5260.00	106.4 AV			1.07 V	127	63.8	42.6
3	5350.00	54.8 PK	74.0	-19.2	1.07 V	127	50.5	4.3
4	5350.00	41.5 AV	54.0	-12.5	1.07 V	127	37.2	4.3
5	#10520.00	58.1 PK	68.2	-10.1	3.16 V	182	46.8	11.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	120.3 PK			1.27 H	281	77.7	42.6
2	*5300.00	107.8 AV			1.27 H	281	65.2	42.6
3	10600.00	58.5 PK	74.0	-15.5	1.56 H	142	47.5	11.0
4	10600.00	47.4 AV	54.0	-6.6	1.56 H	142	36.4	11.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	118.8 PK			1.21 V	123	76.2	42.6
2	*5300.00	105.6 AV			1.21 V	123	63.0	42.6
3	10600.00	57.7 PK	74.0	-16.3	3.48 V	172	46.7	11.0
4	10600.00	46.8 AV	54.0	-7.2	3.48 V	172	35.8	11.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4800.00	56.1 PK	74.0	-17.9	1.11 H	282	51.6	4.5
2	4800.00	50.0 AV	54.0	-4.0	1.11 H	282	45.5	4.5
3	*5320.00	119.0 PK			1.11 H	282	76.5	42.5
4	*5320.00	105.9 AV			1.11 H	282	63.4	42.5
5	5350.00	64.3 PK	74.0	-9.7	1.11 H	282	60.0	4.3
6	5350.00	50.6 AV	54.0	-3.4	1.11 H	282	46.3	4.3
7	10640.00	58.3 PK	74.0	-15.7	1.56 H	142	47.3	11.0
8	10640.00	47.4 AV	54.0	-6.6	1.56 H	142	36.4	11.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4800.00	54.9 PK	74.0	-19.1	1.02 V	150	50.4	4.5
2	4800.00	42.3 AV	54.0	-11.7	1.02 V	150	37.8	4.5
3	*5320.00	117.0 PK			1.02 V	150	74.5	42.5
4	*5320.00	104.3 AV			1.02 V	150	61.8	42.5
5	5350.00	62.3 PK	74.0	-11.7	1.02 V	150	58.0	4.3
6	5350.00	48.3 AV	54.0	-5.7	1.02 V	150	44.0	4.3
7	10640.00	57.5 PK	74.0	-16.5	3.25 V	182	46.5	11.0
8	10640.00	47.0 AV	54.0	-7.0	3.25 V	182	36.0	11.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.0 PK	74.0	-17.0	1.08 H	259	52.4	4.6
2	5460.00	45.2 AV	54.0	-8.8	1.08 H	259	40.6	4.6
3	#5470.00	65.0 PK	68.2	-3.2	1.08 H	259	60.4	4.6
4	*5500.00	118.1 PK			1.08 H	259	75.4	42.7
5	*5500.00	107.5 AV			1.08 H	259	64.8	42.7
6	11000.00	59.3 PK	74.0	-14.7	1.56 H	141	47.7	11.6
7	11000.00	47.2 AV	54.0	-6.8	1.56 H	141	35.6	11.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.5 PK	74.0	-17.5	1.04 V	127	51.9	4.6
2	5460.00	44.2 AV	54.0	-9.8	1.04 V	127	39.6	4.6
3	#5470.00	61.9 PK	68.2	-6.3	1.04 V	127	57.3	4.6
4	*5500.00	115.0 PK			1.04 V	127	72.3	42.7
5	*5500.00	105.2 AV			1.04 V	127	62.5	42.7
6	11000.00	58.2 PK	74.0	-15.8	3.42 V	185	46.6	11.6
7	11000.00	45.9 AV	54.0	-8.1	3.42 V	185	34.3	11.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.2 PK			1.19 H	274	76.4	42.8
2	*5580.00	109.5 AV			1.19 H	274	66.7	42.8
3	11160.00	59.7 PK	74.0	-14.3	1.55 H	147	48.0	11.7
4	11160.00	47.5 AV	54.0	-6.5	1.55 H	147	35.8	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	117.1 PK			1.04 V	128	74.3	42.8
2	*5580.00	107.4 AV			1.04 V	128	64.6	42.8
3	11160.00	58.5 PK	74.0	-15.5	3.31 V	182	46.8	11.7
4	11160.00	46.5 AV	54.0	-7.5	3.31 V	182	34.8	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	117.6 PK			1.02 H	266	73.7	43.9
2	*5700.00	107.2 AV			1.02 H	266	63.3	43.9
3	#5725.00	65.2 PK	68.2	-3.0	1.02 H	266	59.4	5.8
4	11400.00	59.8 PK	74.0	-14.2	1.52 H	146	47.6	12.2
5	11400.00	47.7 AV	54.0	-6.3	1.52 H	146	35.5	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	115.5 PK			1.15 V	134	71.6	43.9
2	*5700.00	105.0 AV			1.15 V	134	61.1	43.9
3	#5725.00	62.6 PK	68.2	-5.6	1.15 V	134	56.8	5.8
4	11400.00	58.8 PK	74.0	-15.2	3.33 V	182	46.6	12.2
5	11400.00	46.6 AV	54.0	-7.4	3.33 V	182	34.4	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.4 PK	68.2	-11.8	1.16 H	265	51.8	4.6
2	*5720.00	121.0 PK			1.16 H	265	77.2	43.8
3	*5720.00	110.6 AV			1.16 H	265	66.8	43.8
4	#5850.00	58.1 PK	68.2	-10.1	1.16 H	265	51.9	6.2
5	11440.00	60.3 PK	74.0	-13.7	1.61 H	148	48.1	12.2
6	11440.00	48.2 AV	54.0	-5.8	1.61 H	148	36.0	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.1 PK	68.2	-12.1	1.02 V	129	51.5	4.6
2	*5720.00	118.9 PK			1.02 V	129	75.1	43.8
3	*5720.00	108.4 AV			1.02 V	129	64.6	43.8
4	#5850.00	57.8 PK	68.2	-10.4	1.02 V	129	51.6	6.2
5	11440.00	59.0 PK	74.0	-15.0	3.36 V	179	46.8	12.2
6	11440.00	47.0 AV	54.0	-7.0	3.36 V	179	34.8	12.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5745.00	123.2 PK			1.14 H	267	79.5	43.7
2	*5745.00	109.7 AV			1.14 H	267	66.0	43.7
3	11490.00	59.8 PK	74.0	-14.2	1.56 H	142	47.5	12.3
4	11490.00	47.8 AV	54.0	-6.2	1.56 H	142	35.5	12.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5745.00	118.7 PK			1.20 V	156	75.0	43.7
2	*5745.00	105.7 AV			1.20 V	156	62.0	43.7
3	11490.00	58.8 PK	74.0	-15.2	3.56 V	183	46.5	12.3
4	11490.00	46.7 AV	54.0	-7.3	3.56 V	183	34.4	12.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5785.00	123.5 PK			1.14 H	265	79.5	44.0
2	*5785.00	110.8 AV			1.14 H	265	66.8	44.0
3	11570.00	60.3 PK	74.0	-13.7	1.50 H	143	47.7	12.6
4	11570.00	48.0 AV	54.0	-6.0	1.50 H	143	35.4	12.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5785.00	120.3 PK			1.06 V	130	76.3	44.0
2	*5785.00	107.0 AV			1.06 V	130	63.0	44.0
3	11570.00	59.4 PK	74.0	-14.6	3.46 V	190	46.8	12.6
4	11570.00	47.1 AV	54.0	-6.9	3.46 V	190	34.5	12.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5825.00	124.4 PK			1.09 H	265	80.2	44.2
2	*5825.00	111.5 AV			1.09 H	265	67.3	44.2
3	11650.00	60.2 PK	74.0	-13.8	1.55 H	147	47.8	12.4
4	11650.00	48.0 AV	54.0	-6.0	1.55 H	147	35.6	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5825.00	120.5 PK			1.04 V	123	76.3	44.2
2	*5825.00	107.4 AV			1.04 V	123	63.2	44.2
3	11650.00	59.1 PK	74.0	-14.9	3.31 V	182	46.7	12.4
4	11650.00	46.9 AV	54.0	-7.1	3.31 V	182	34.5	12.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.3 PK	74.0	-6.7	1.28 H	270	62.8	4.5
2	5150.00	50.8 AV	54.0	-3.2	1.28 H	270	46.3	4.5
3	*5190.00	113.9 PK			1.28 H	270	71.4	42.5
4	*5190.00	103.3 AV			1.28 H	270	60.8	42.5
5	#10380.00	59.0 PK	68.2	-9.2	1.57 H	140	47.5	11.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.3 PK	74.0	-10.7	1.07 V	123	58.8	4.5
2	5150.00	47.1 AV	54.0	-6.9	1.07 V	123	42.6	4.5
3	*5190.00	113.4 PK			1.07 V	123	70.9	42.5
4	*5190.00	100.9 AV			1.07 V	123	58.4	42.5
5	#10380.00	58.1 PK	68.2	-10.1	3.32 V	191	46.6	11.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	116.6 PK			1.24 H	277	74.1	42.5
2	*5230.00	106.1 AV			1.24 H	277	63.6	42.5
3	5350.00	56.7 PK	74.0	-17.3	1.24 H	277	52.4	4.3
4	5350.00	44.2 AV	54.0	-9.8	1.24 H	277	39.9	4.3
5	#10460.00	58.7 PK	68.2	-9.5	1.58 H	145	47.3	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	114.0 PK			1.12 V	126	71.5	42.5
2	*5230.00	103.6 AV			1.12 V	126	61.1	42.5
3	5350.00	56.1 PK	74.0	-17.9	1.12 V	126	51.8	4.3
4	5350.00	43.2 AV	54.0	-10.8	1.12 V	126	38.9	4.3
5	#10460.00	57.8 PK	68.2	-10.4	3.31 V	187	46.4	11.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4800.00	57.5 PK	74.0	-16.5	1.00 H	283	53.0	4.5
2	4800.00	50.0 AV	54.0	-4.0	1.00 H	283	45.5	4.5
3	*5270.00	117.6 PK			1.00 H	283	75.0	42.6
4	*5270.00	106.1 AV			1.00 H	283	63.5	42.6
5	#10540.00	58.5 PK	68.2	-9.7	1.52 H	140	47.2	11.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4800.00	55.3 PK	74.0	-18.7	1.03 V	122	50.8	4.5
2	4800.00	43.1 AV	54.0	-10.9	1.03 V	122	38.6	4.5
3	*5270.00	116.8 PK			1.03 V	122	74.2	42.6
4	*5270.00	104.6 AV			1.03 V	122	62.0	42.6
5	#10540.00	57.8 PK	68.2	-10.4	3.45 V	177	46.5	11.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	114.2 PK			1.05 H	319	71.7	42.5
2	*5310.00	102.7 AV			1.05 H	319	60.2	42.5
3	5350.00	65.4 PK	74.0	-8.6	1.05 H	319	61.1	4.3
4	5350.00	51.0 AV	54.0	-3.0	1.05 H	319	46.7	4.3
5	10620.00	58.0 PK	74.0	-16.0	1.55 H	143	47.0	11.0
6	10620.00	47.6 AV	54.0	-6.4	1.55 H	143	36.6	11.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	113.1 PK			1.04 V	119	70.6	42.5
2	*5310.00	101.5 AV			1.04 V	119	59.0	42.5
3	5350.00	63.2 PK	74.0	-10.8	1.04 V	119	58.9	4.3
4	5350.00	49.5 AV	54.0	-4.5	1.04 V	119	45.2	4.3
5	10620.00	57.5 PK	74.0	-16.5	3.45 V	177	46.5	11.0
6	10620.00	46.9 AV	54.0	-7.1	3.45 V	177	35.9	11.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.3 PK	74.0	-13.7	1.00 H	264	55.7	4.6
2	5460.00	45.2 AV	54.0	-8.8	1.00 H	264	40.6	4.6
3	#5470.00	64.8 PK	68.2	-3.4	1.00 H	264	60.2	4.6
4	*5510.00	114.4 PK			1.00 H	264	71.8	42.6
5	*5510.00	104.0 AV			1.00 H	264	61.4	42.6
6	11020.00	59.3 PK	74.0	-14.7	1.55 H	142	47.6	11.7
7	11020.00	47.1 AV	54.0	-6.9	1.55 H	142	35.4	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.5 PK	74.0	-16.5	1.10 V	127	52.9	4.6
2	5460.00	44.7 AV	54.0	-9.3	1.10 V	127	40.1	4.6
3	#5470.00	60.5 PK	68.2	-7.7	1.10 V	127	55.9	4.6
4	*5510.00	112.4 PK			1.10 V	127	69.8	42.6
5	*5510.00	101.8 AV			1.10 V	127	59.2	42.6
6	11020.00	58.3 PK	74.0	-15.7	3.32 V	184	46.6	11.7
7	11020.00	46.1 AV	54.0	-7.9	3.32 V	184	34.4	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.8 PK	74.0	-14.2	1.05 H	271	55.2	4.6
2	5460.00	45.4 AV	54.0	-8.6	1.05 H	271	40.8	4.6
3	#5470.00	65.0 PK	68.2	-3.2	1.05 H	271	60.4	4.6
4	*5550.00	117.4 PK			1.05 H	271	74.8	42.6
5	*5550.00	107.0 AV			1.05 H	271	64.4	42.6
6	11100.00	59.2 PK	74.0	-14.8	1.63 H	148	47.5	11.7
7	11100.00	47.1 AV	54.0	-6.9	1.63 H	148	35.4	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.8 PK	74.0	-16.2	1.15 V	131	53.2	4.6
2	5460.00	44.7 AV	54.0	-9.3	1.15 V	131	40.1	4.6
3	#5470.00	62.5 PK	68.2	-5.7	1.15 V	131	57.9	4.6
4	*5550.00	115.3 PK			1.15 V	131	72.7	42.6
5	*5550.00	104.8 AV			1.15 V	131	62.2	42.6
6	11100.00	58.2 PK	74.0	-15.8	3.38 V	178	46.5	11.7
7	11100.00	46.1 AV	54.0	-7.9	3.38 V	178	34.4	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	115.7 PK			1.08 H	266	71.9	43.8
2	*5670.00	105.3 AV			1.08 H	266	61.5	43.8
3	#5725.00	64.5 PK	68.2	-3.7	1.08 H	266	58.7	5.8
4	11340.00	59.5 PK	74.0	-14.5	1.62 H	148	47.5	12.0
5	11340.00	47.4 AV	54.0	-6.6	1.62 H	148	35.4	12.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	113.6 PK			1.14 V	126	69.8	43.8
2	*5670.00	103.2 AV			1.14 V	126	59.4	43.8
3	#5725.00	61.7 PK	68.2	-6.5	1.14 V	126	55.9	5.8
4	11340.00	58.3 PK	74.0	-15.7	3.41 V	179	46.3	12.0
5	11340.00	47.1 AV	54.0	-6.9	3.41 V	179	35.1	12.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.9 PK	68.2	-11.3	1.30 H	266	52.3	4.6
2	*5710.00	119.5 PK			1.30 H	266	75.6	43.9
3	*5710.00	109.2 AV			1.30 H	266	65.3	43.9
4	#5850.00	58.3 PK	68.2	-9.9	1.30 H	266	52.1	6.2
5	11420.00	59.9 PK	74.0	-14.1	1.62 H	152	47.8	12.1
6	11420.00	47.7 AV	54.0	-6.3	1.62 H	152	35.6	12.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.5 PK	68.2	-11.7	1.03 V	125	51.9	4.6
2	*5710.00	117.5 PK			1.03 V	125	73.6	43.9
3	*5710.00	107.0 AV			1.03 V	125	63.1	43.9
4	#5850.00	57.9 PK	68.2	-10.3	1.03 V	125	51.7	6.2
5	11420.00	58.8 PK	74.0	-15.2	3.40 V	187	46.7	12.1
6	11420.00	46.6 AV	54.0	-7.4	3.40 V	187	34.5	12.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5755.00	120.2 PK			1.05 H	266	76.5	43.7
2	*5755.00	108.5 AV			1.05 H	266	64.8	43.7
3	11510.00	59.7 PK	74.0	-14.3	1.52 H	146	47.4	12.3
4	11510.00	47.8 AV	54.0	-6.2	1.52 H	146	35.5	12.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5755.00	118.9 PK			1.15 V	134	75.2	43.7
2	*5755.00	105.7 AV			1.15 V	134	62.0	43.7
3	11510.00	59.1 PK	74.0	-14.9	3.40 V	179	46.8	12.3
4	11510.00	46.7 AV	54.0	-7.3	3.40 V	179	34.4	12.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5795.00	120.6 PK			1.14 H	266	76.5	44.1
2	*5795.00	109.6 AV			1.14 H	266	65.5	44.1
3	11590.00	60.2 PK	74.0	-13.8	1.52 H	146	47.6	12.6
4	11590.00	48.1 AV	54.0	-5.9	1.52 H	146	35.5	12.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5795.00	117.0 PK			1.02 V	129	72.9	44.1
2	*5795.00	105.6 AV			1.02 V	129	61.5	44.1
3	11590.00	59.3 PK	74.0	-14.7	3.36 V	179	46.7	12.6
4	11590.00	47.4 AV	54.0	-6.6	3.36 V	179	34.8	12.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.8 PK	74.0	-9.2	1.24 H	274	60.3	4.5
2	5150.00	50.9 AV	54.0	-3.1	1.24 H	274	46.4	4.5
3	*5210.00	110.9 PK			1.24 H	274	68.4	42.5
4	*5210.00	100.3 AV			1.24 H	274	57.8	42.5
5	#10420.00	58.7 PK	68.2	-9.5	1.52 H	147	47.3	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.4 PK	74.0	-11.6	1.09 V	127	57.9	4.5
2	5150.00	49.4 AV	54.0	-4.6	1.09 V	127	44.9	4.5
3	*5210.00	108.1 PK			1.09 V	128	65.6	42.5
4	*5210.00	97.6 AV			1.09 V	128	55.1	42.5
5	#10420.00	57.7 PK	68.2	-10.5	3.31 V	189	46.3	11.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	110.1 PK			1.22 H	271	67.5	42.6
2	*5290.00	98.8 AV			1.22 H	271	56.2	42.6
3	5350.00	64.8 PK	74.0	-9.2	1.22 H	271	60.5	4.3
4	5350.00	50.3 AV	54.0	-3.7	1.22 H	271	46.0	4.3
5	#10580.00	58.3 PK	68.2	-9.9	1.60 H	141	47.2	11.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	108.2 PK			1.00 V	121	65.6	42.6
2	*5290.00	97.2 AV			1.00 V	121	54.6	42.6
3	5350.00	62.5 PK	74.0	-11.5	1.00 V	121	58.2	4.3
4	5350.00	48.8 AV	54.0	-5.2	1.00 V	121	44.5	4.3
5	#10580.00	57.2 PK	68.2	-11.0	3.33 V	170	46.1	11.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	1.06 H	265	57.6	4.6
2	5460.00	46.9 AV	54.0	-7.1	1.06 H	265	42.3	4.6
3	#5470.00	64.8 PK	68.2	-3.4	1.06 H	265	60.2	4.6
4	*5530.00	112.8 PK			1.06 H	265	70.2	42.6
5	*5530.00	102.2 AV			1.06 H	265	59.6	42.6
6	11060.00	59.0 PK	74.0	-15.0	1.59 H	140	47.3	11.7
7	11060.00	46.8 AV	54.0	-7.2	1.59 H	140	35.1	11.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.4 PK	74.0	-13.6	1.14 V	127	55.8	4.6
2	5460.00	45.1 AV	54.0	-8.9	1.14 V	127	40.5	4.6
3	#5470.00	61.8 PK	68.2	-6.4	1.14 V	127	57.2	4.6
4	*5530.00	110.7 PK			1.14 V	127	68.1	42.6
5	*5530.00	100.2 AV			1.14 V	127	57.6	42.6
6	11060.00	58.2 PK	74.0	-15.8	3.38 V	187	46.5	11.7
7	11060.00	46.0 AV	54.0	-8.0	3.38 V	187	34.3	11.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	114.4 PK			1.21 H	266	71.3	43.1
2	*5610.00	103.8 AV			1.21 H	266	60.7	43.1
3	#5725.00	65.1 PK	68.2	-3.1	1.21 H	266	59.3	5.8
4	11220.00	59.1 PK	74.0	-14.9	1.62 H	142	47.3	11.8
5	11220.00	47.0 AV	54.0	-7.0	1.62 H	142	35.2	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	112.0 PK			1.04 V	128	68.9	43.1
2	*5610.00	101.6 AV			1.04 V	128	58.5	43.1
3	#5725.00	63.1 PK	68.2	-5.1	1.04 V	128	57.3	5.8
4	11220.00	58.3 PK	74.0	-15.7	3.47 V	189	46.5	11.8
5	11220.00	46.1 AV	54.0	-7.9	3.47 V	189	34.3	11.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.6 PK	68.2	-11.6	1.24 H	268	52.0	4.6
2	*5690.00	115.8 PK			1.24 H	268	72.0	43.8
3	*5690.00	104.0 AV			1.24 H	268	60.2	43.8
4	#5850.00	64.5 PK	68.2	-3.7	1.24 H	268	58.3	6.2
5	11380.00	59.4 PK	74.0	-14.6	1.60 H	147	47.4	12.0
6	11380.00	47.0 AV	54.0	-7.0	1.60 H	147	35.0	12.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.2 PK	68.2	-12.0	1.15 V	153	51.6	4.6
2	*5690.00	112.9 PK			1.15 V	153	69.1	43.8
3	*5690.00	99.8 AV			1.15 V	153	56.0	43.8
4	#5850.00	57.1 PK	68.2	-11.1	1.15 V	153	50.9	6.2
5	11220.00	58.3 PK	74.0	-15.7	3.50 V	187	46.5	11.8
6	11220.00	46.4 AV	54.0	-7.6	3.50 V	187	34.6	11.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5775.00	117.2 PK			1.09 H	266	73.2	44.0
2	*5775.00	103.3 AV			1.09 H	266	59.3	44.0
3	11550.00	60.0 PK	74.0	-14.0	1.53 H	141	47.6	12.4
4	11550.00	47.9 AV	54.0	-6.1	1.53 H	141	35.5	12.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5775.00	112.0 PK			1.15 V	134	68.0	44.0
2	*5775.00	100.4 AV			1.15 V	134	56.4	44.0
3	11550.00	59.1 PK	74.0	-14.9	3.40 V	179	46.7	12.4
4	11550.00	46.8 AV	54.0	-7.2	3.40 V	179	34.4	12.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ac (VHT160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.8 PK	74.0	-12.2	1.21 H	272	57.3	4.5
2	5150.00	50.8 AV	54.0	-3.2	1.21 H	272	46.3	4.5
3	*5250.00	106.3 PK			1.21 H	272	63.7	42.6
4	*5250.00	95.9 AV			1.21 H	272	53.3	42.6
5	#10500.00	58.8 PK	68.2	-9.4	1.62 H	148	47.4	11.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.7 PK	74.0	-13.3	1.03 V	126	56.2	4.5
2	5150.00	49.2 AV	54.0	-4.8	1.03 V	126	44.7	4.5
3	*5250.00	104.2 PK			1.03 V	126	61.6	42.6
4	*5250.00	93.7 AV			1.03 V	126	51.1	42.6
5	#10500.00	57.9 PK	68.2	-10.3	3.42 V	185	46.5	11.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	802.11ac (VHT160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.9 PK	74.0	-11.1	1.15 H	272	58.3	4.6
2	5460.00	50.7 AV	54.0	-3.3	1.15 H	272	46.1	4.6
3	#5470.00	63.4 PK	68.2	-4.8	1.15 H	272	58.8	4.6
4	*5570.00	108.5 PK			1.15 H	272	65.8	42.7
5	*5570.00	98.1 AV			1.15 H	272	55.4	42.7
6	11140.00	59.2 PK	74.0	-14.8	1.59 H	142	47.4	11.8
7	11140.00	47.0 AV	54.0	-7.0	1.59 H	142	35.2	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.3 PK	74.0	-12.7	1.07 V	124	56.7	4.6
2	5460.00	48.9 AV	54.0	-5.1	1.07 V	124	44.3	4.6
3	#5470.00	61.8 PK	68.2	-6.4	1.07 V	124	57.2	4.6
4	*5570.00	106.4 PK			1.07 V	124	63.7	42.7
5	*5570.00	95.9 AV			1.07 V	124	53.2	42.7
6	11140.00	58.2 PK	74.0	-15.8	3.37 V	181	46.4	11.8
7	11140.00	46.1 AV	54.0	-7.9	3.37 V	181	34.3	11.8

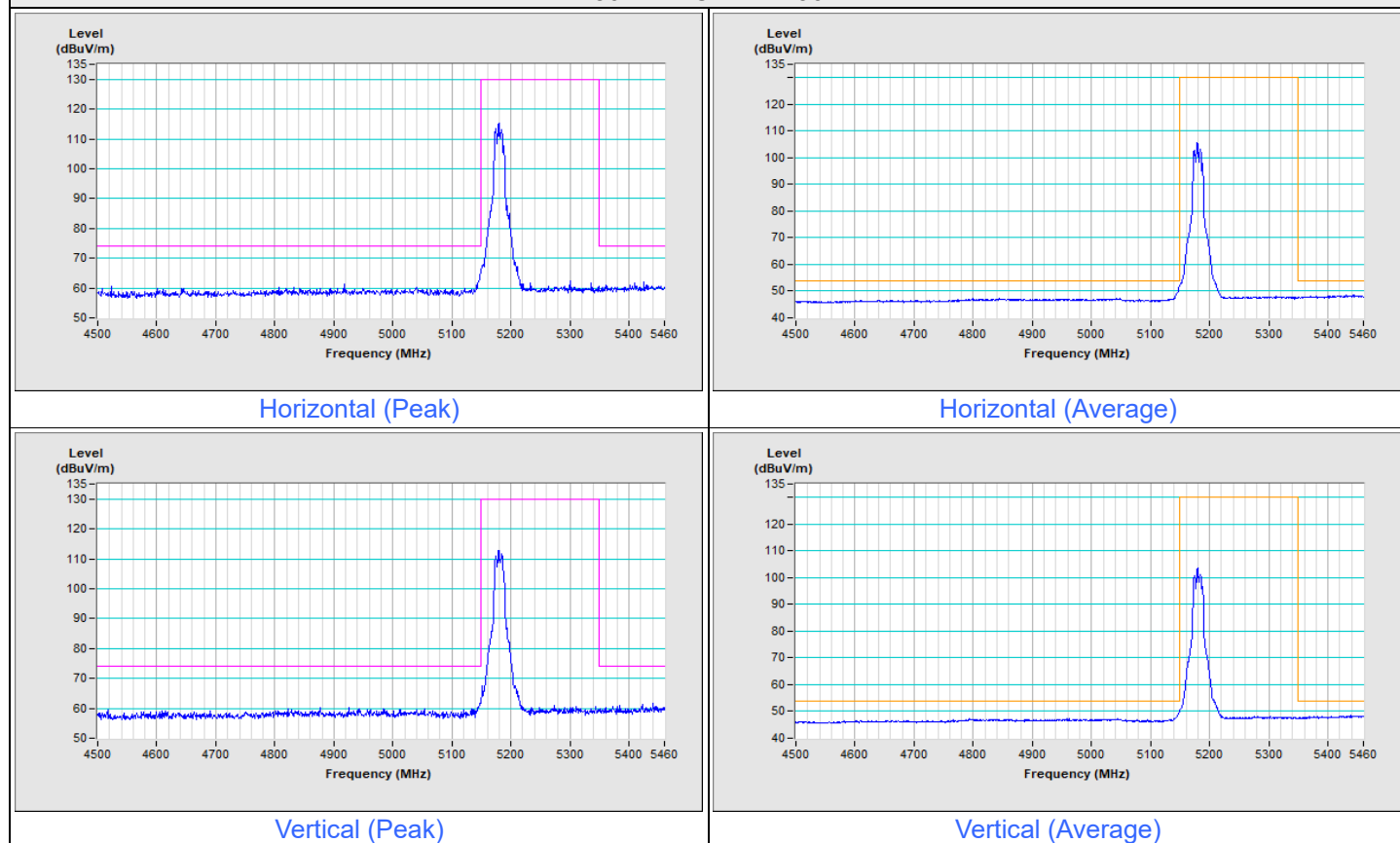
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

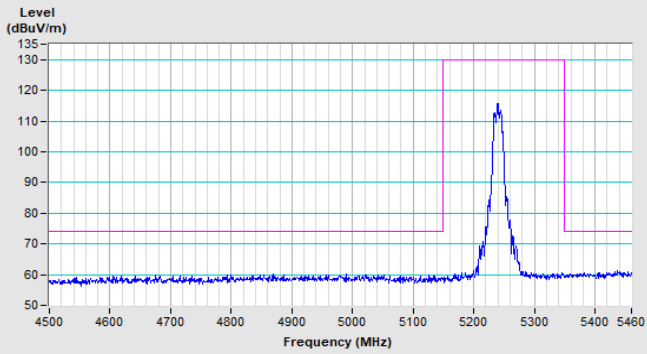
Plot of Band Edge

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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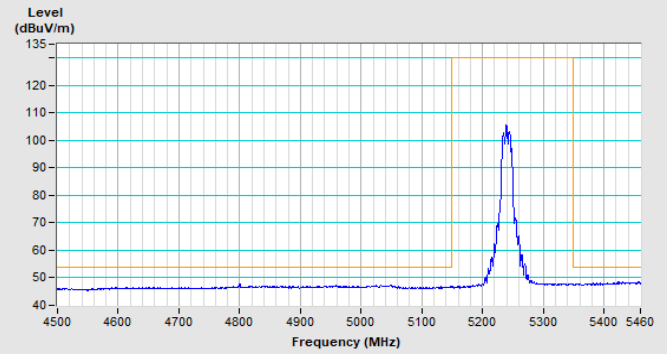
802.11a Channel 36



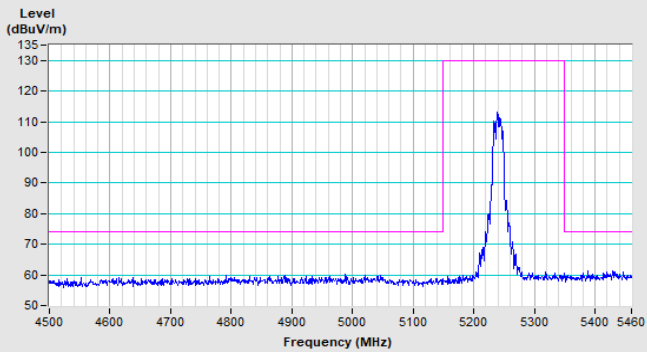
802.11a Channel 48



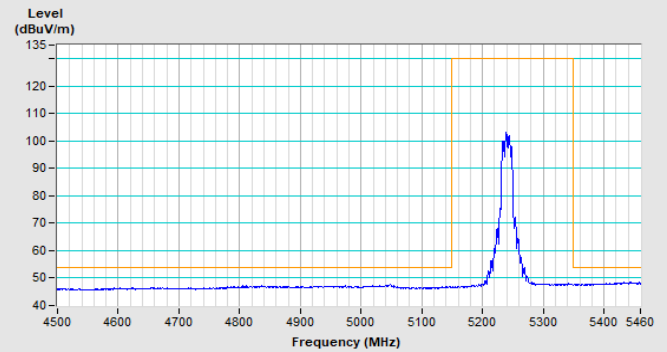
Horizontal (Peak)



Horizontal (Average)

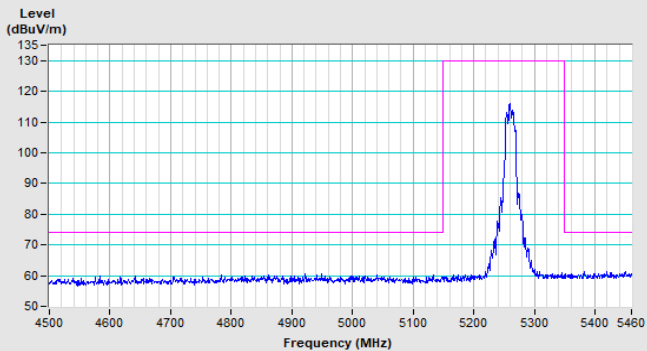


Vertical (Peak)

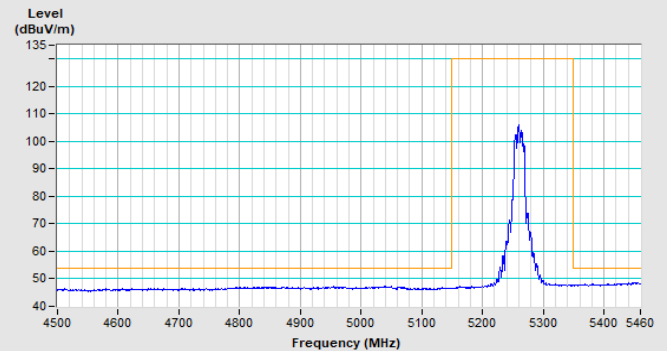


Vertical (Average)

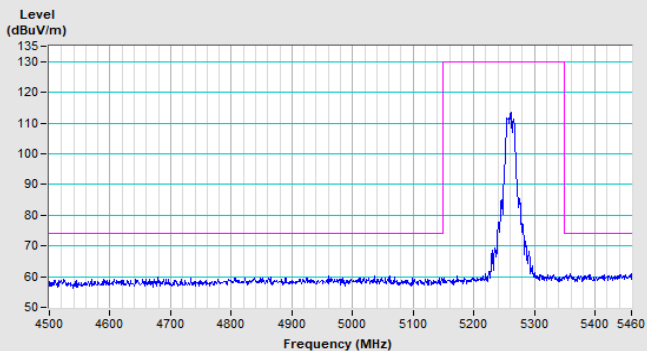
802.11a Channel 52



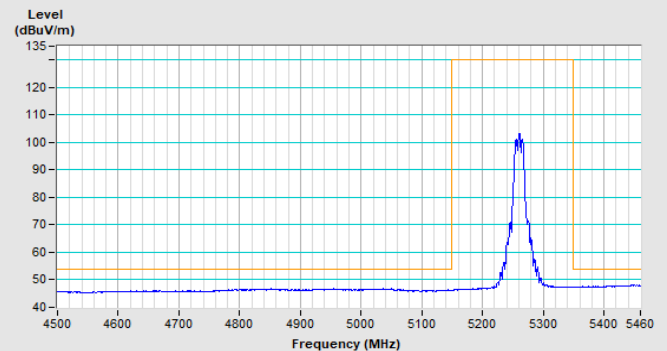
Horizontal (Peak)



Horizontal (Average)

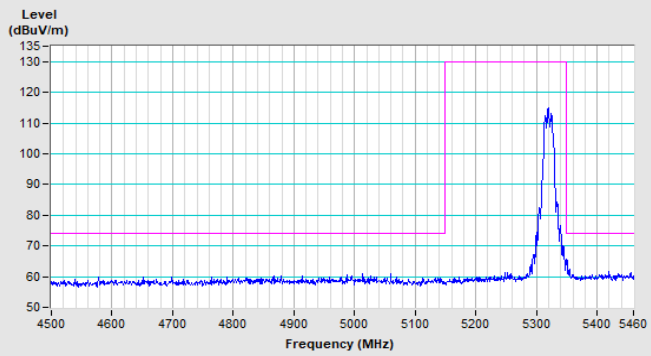


Vertical (Peak)

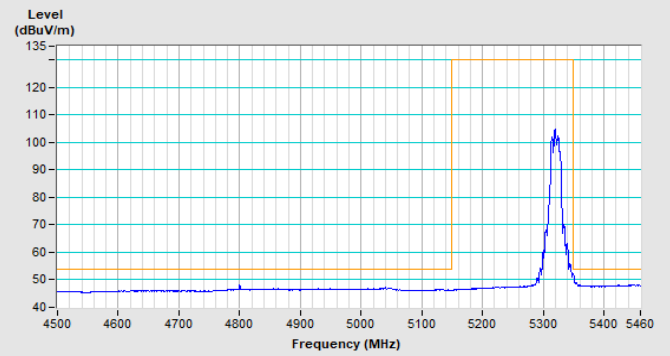


Vertical (Average)

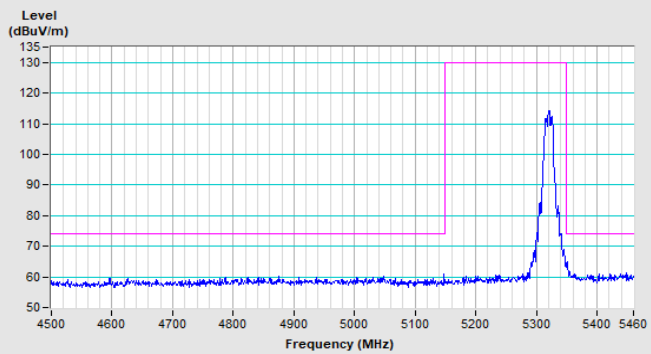
802.11a Channel 64



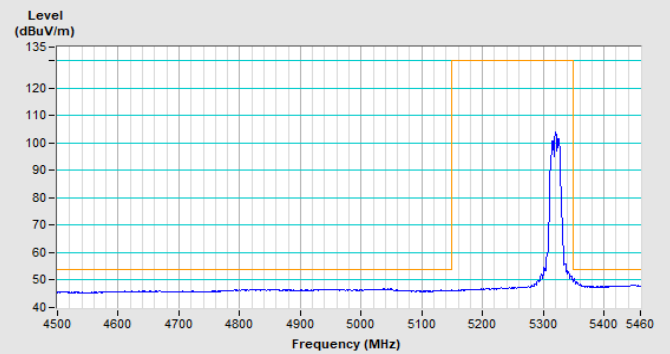
Horizontal (Peak)



Horizontal (Average)



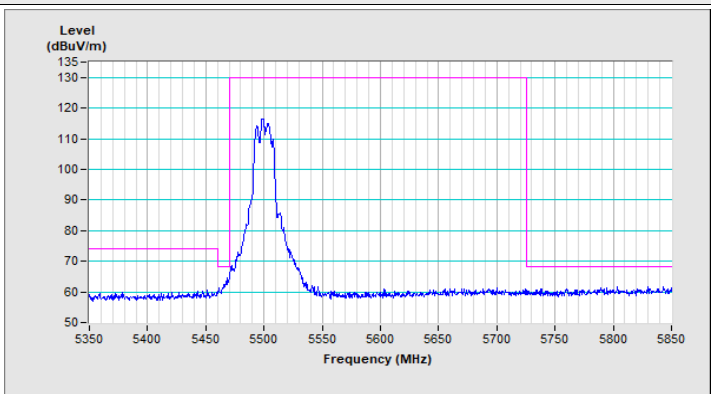
Vertical (Peak)



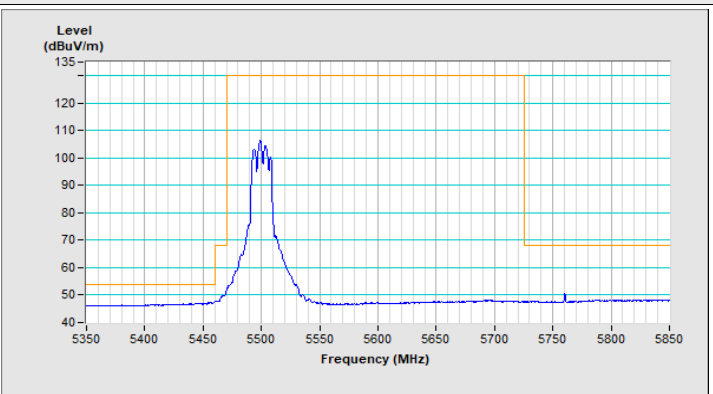
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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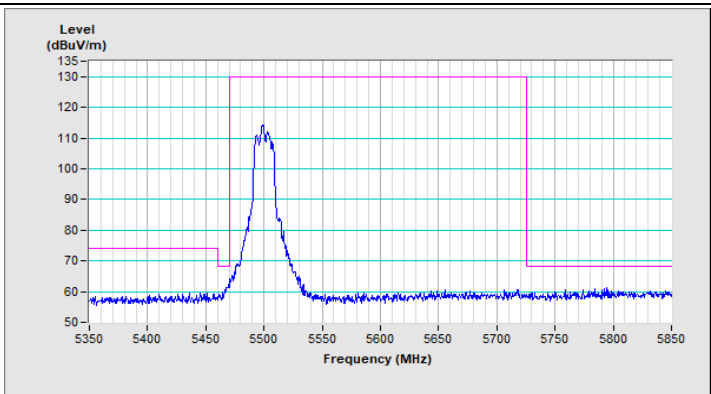
802.11a Channel 100



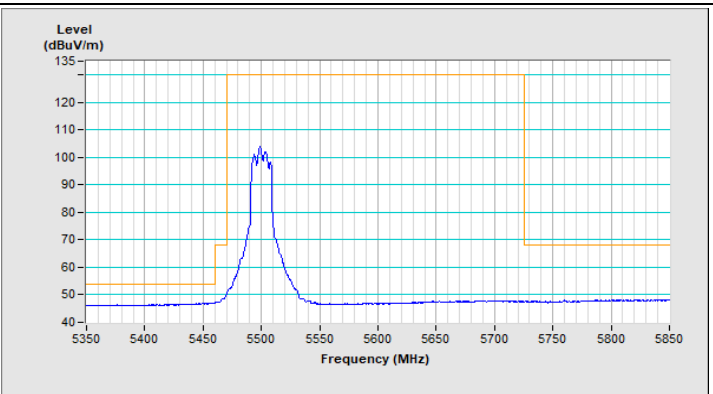
Horizontal (Peak)



Horizontal (Average)

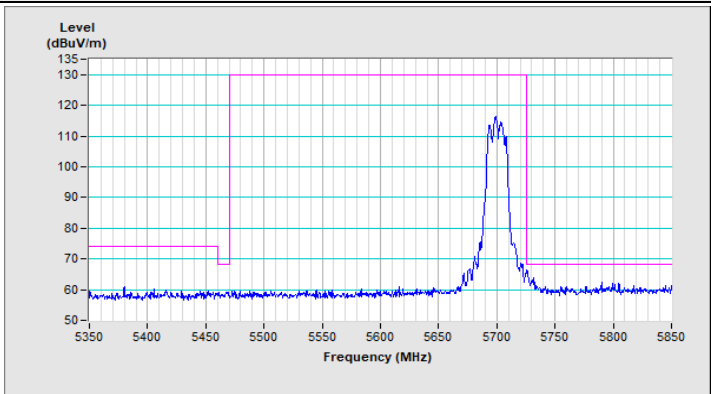


Vertical (Peak)

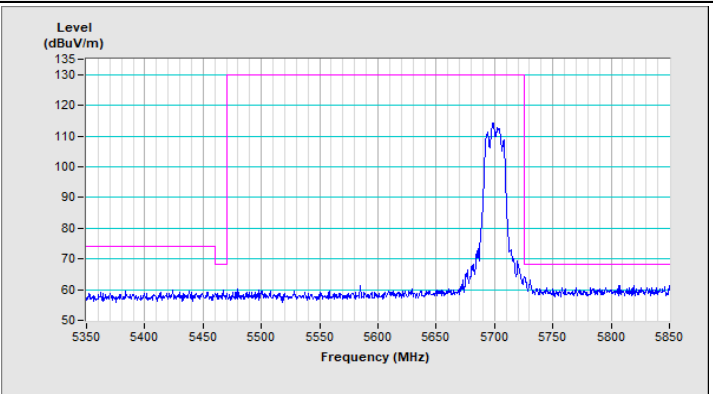


Vertical (Average)

802.11a Channel 140



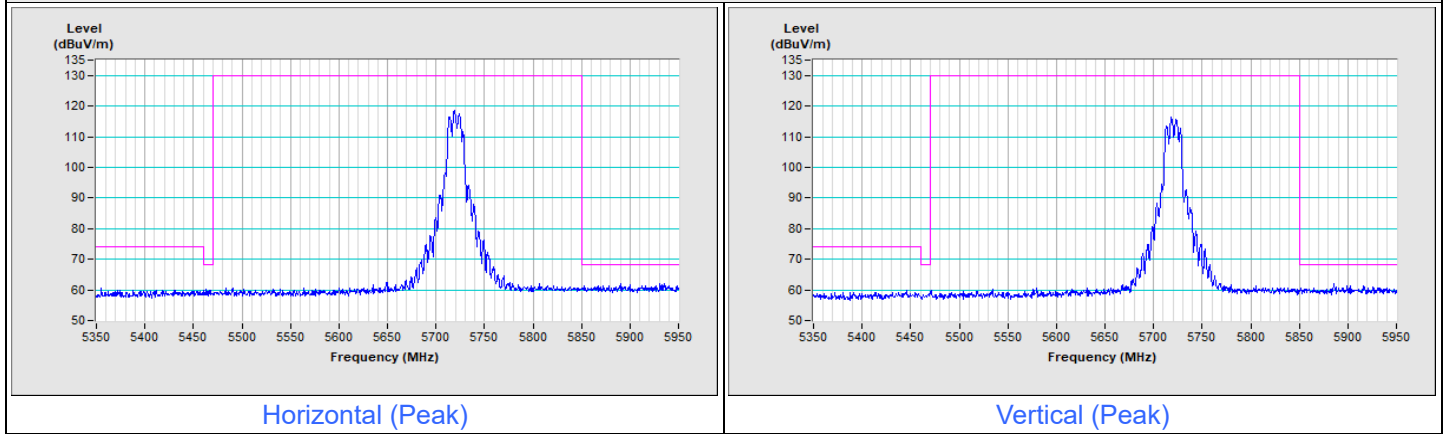
Horizontal (Peak)



Vertical (Peak)

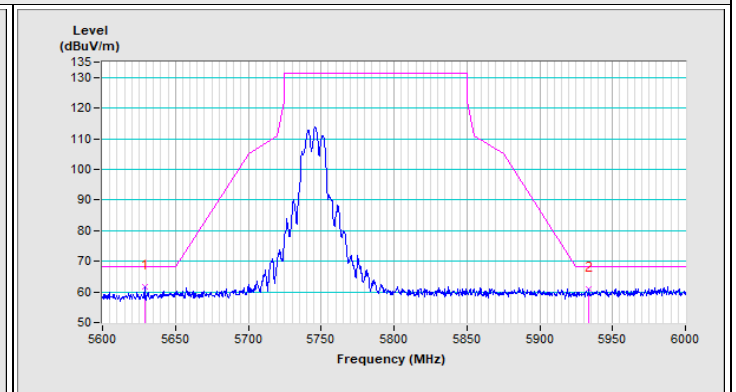
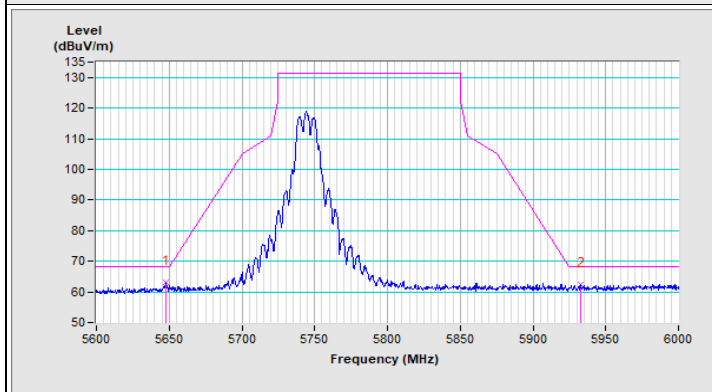
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 144

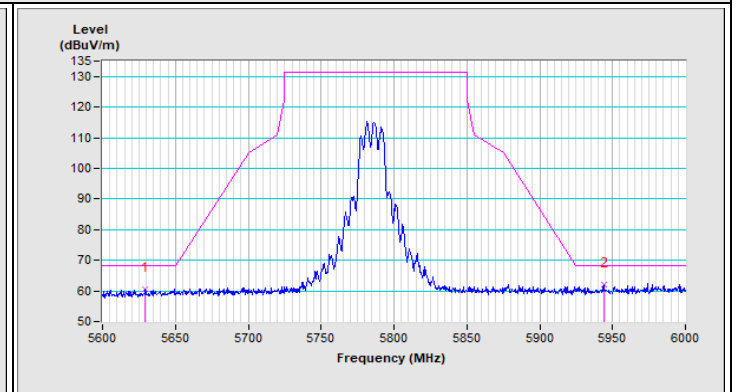
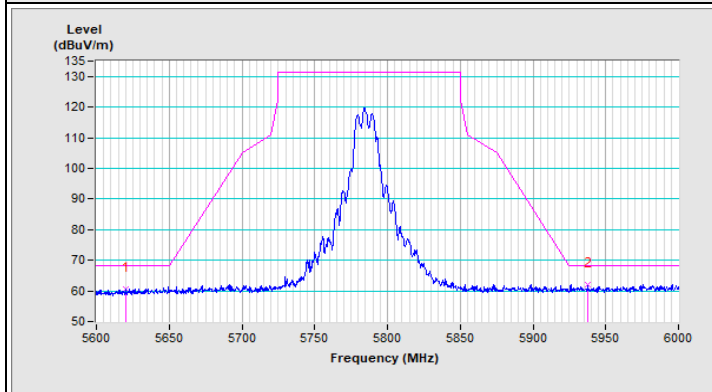


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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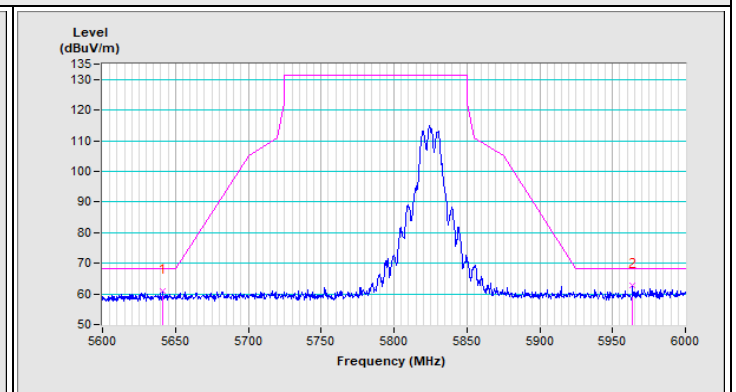
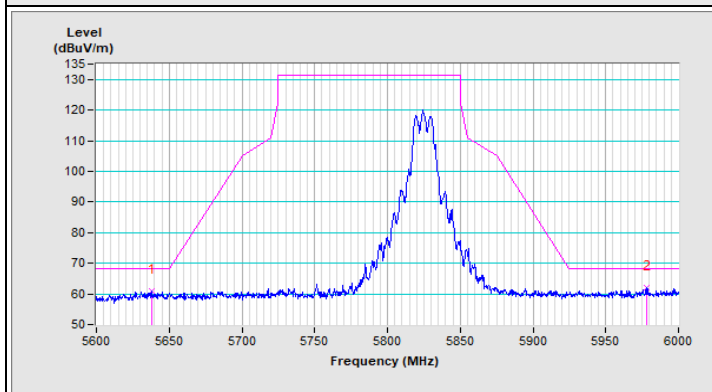
802.11a Channel 149



802.11a Channel 157

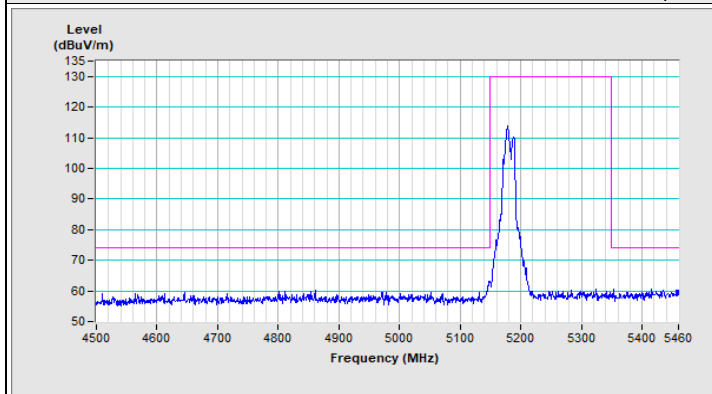


802.11a Channel 165

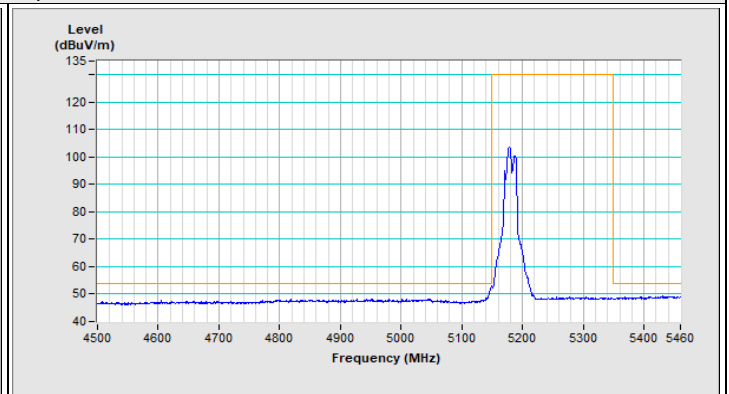


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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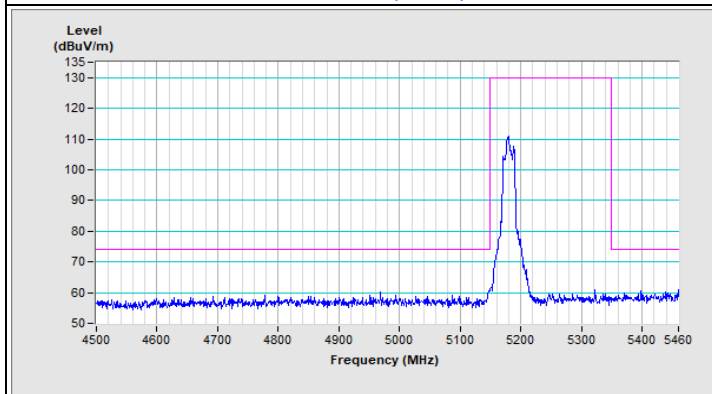
802.11ac (VHT20) Channel 36



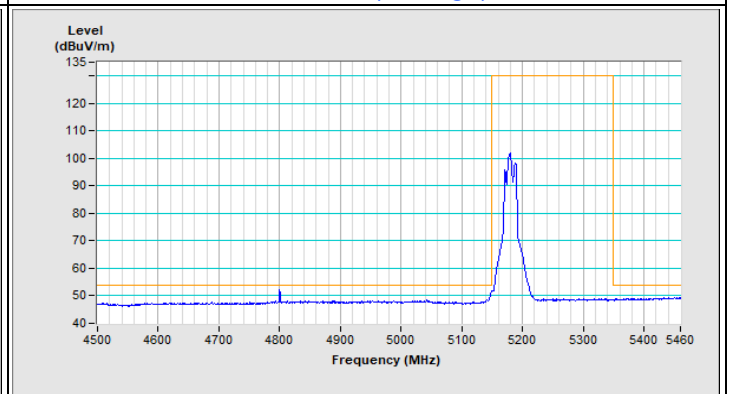
Horizontal (Peak)



Horizontal (Average)

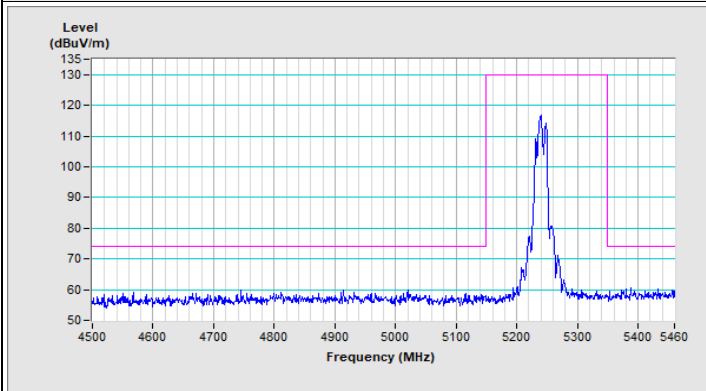


Vertical (Peak)

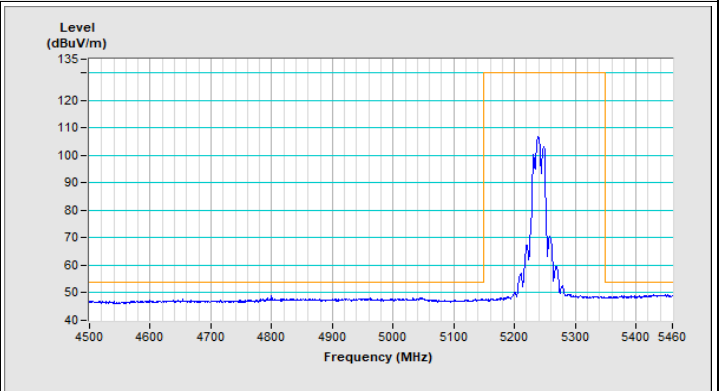


Vertical (Average)

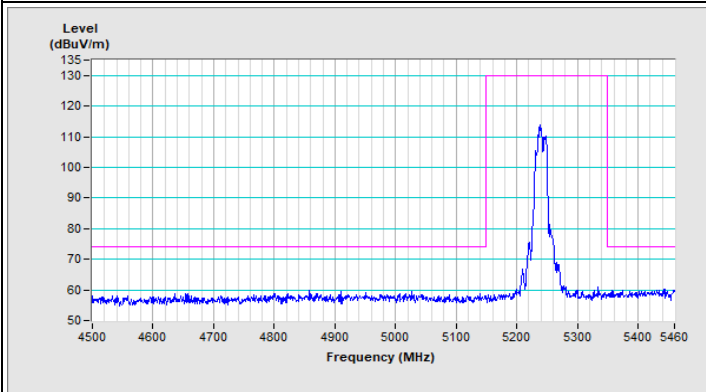
802.11ac (VHT20) Channel 48



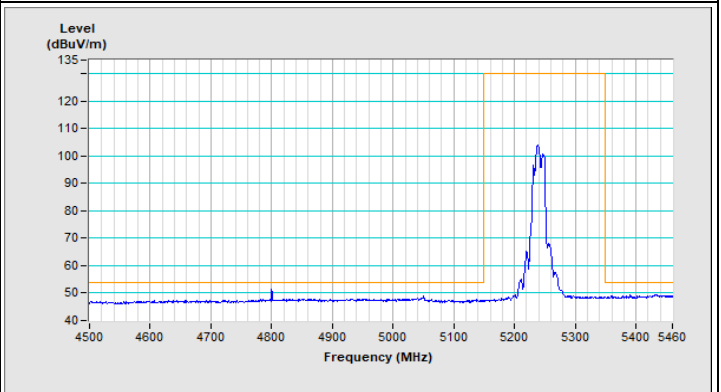
Horizontal (Peak)



Horizontal (Average)

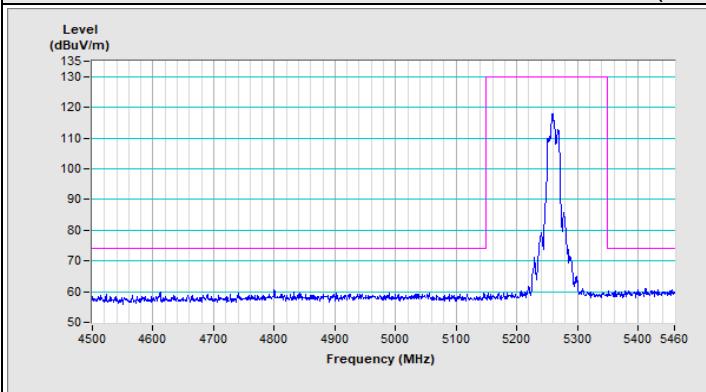


Vertical (Peak)

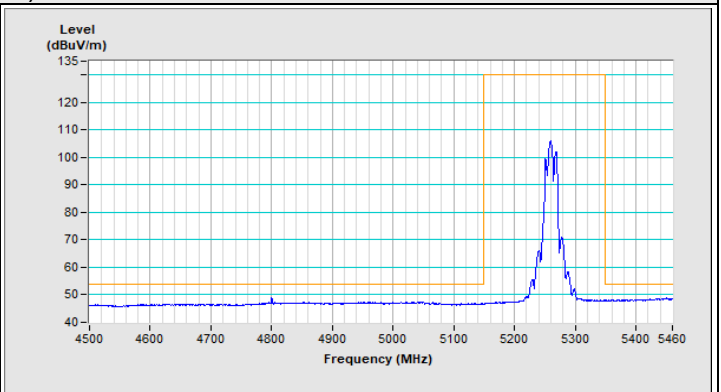


Vertical (Average)

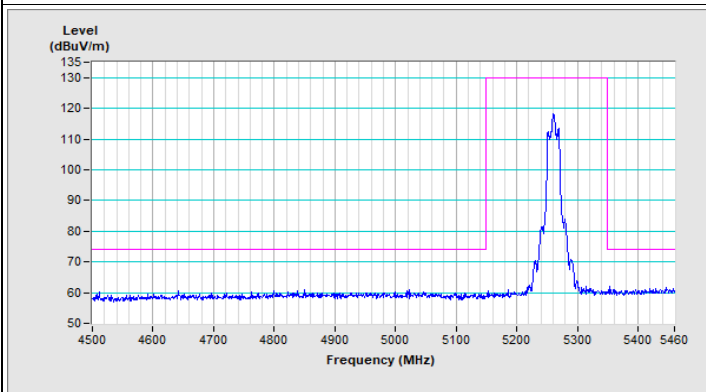
802.11ac (VHT20) Channel 52



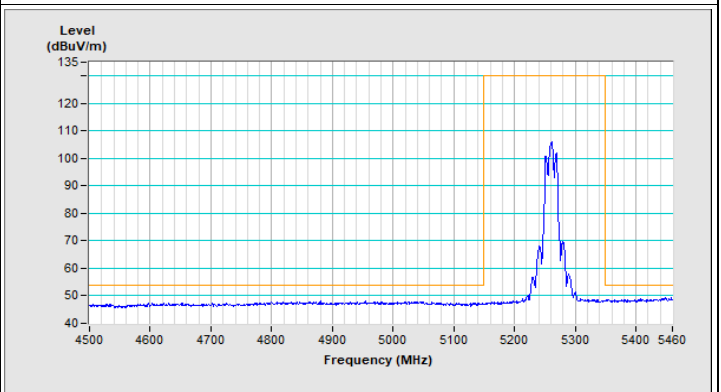
Horizontal (Peak)



Horizontal (Average)

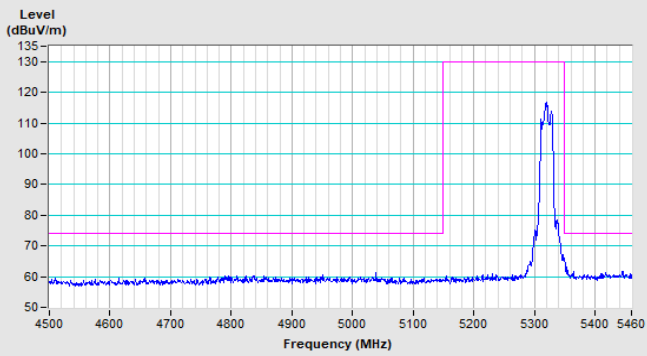


Vertical (Peak)

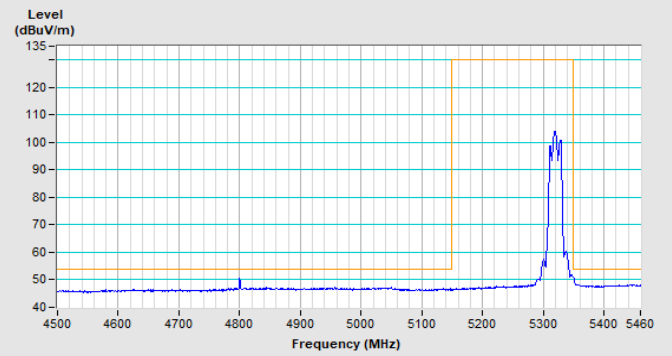


Vertical (Average)

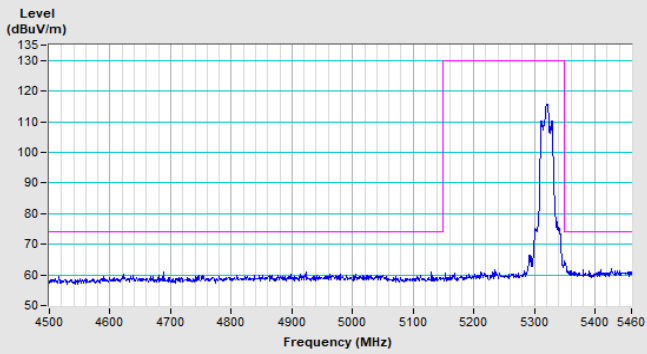
802.11ac (VHT20) Channel 64



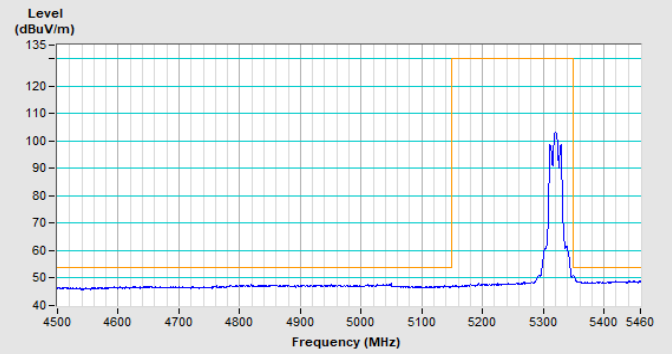
Horizontal (Peak)



Horizontal (Average)



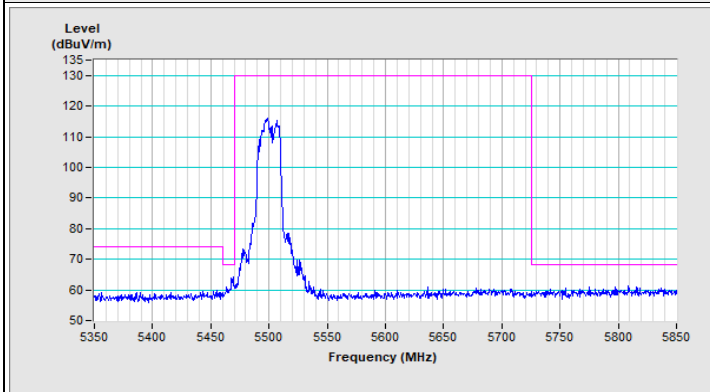
Vertical (Peak)



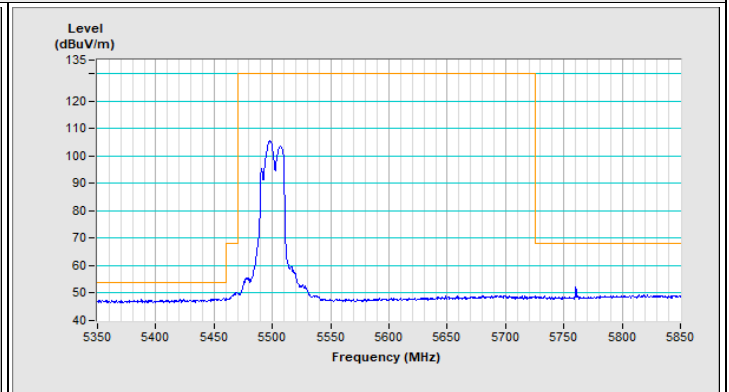
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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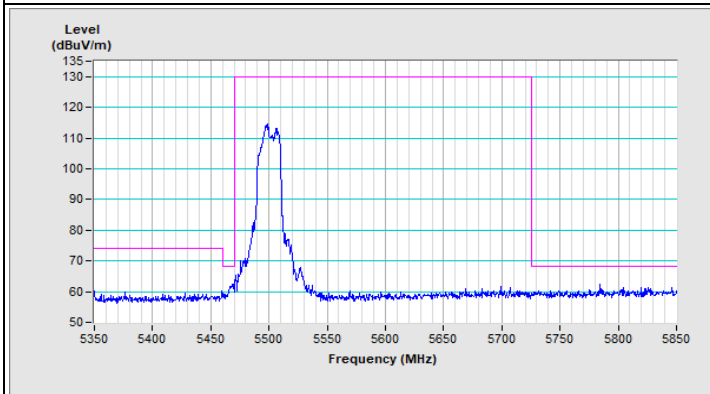
802.11ac (VHT20) Channel 100



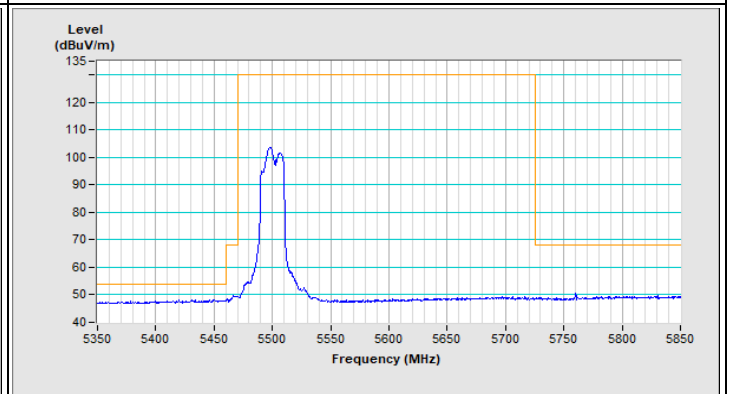
Horizontal (Peak)



Horizontal (Average)

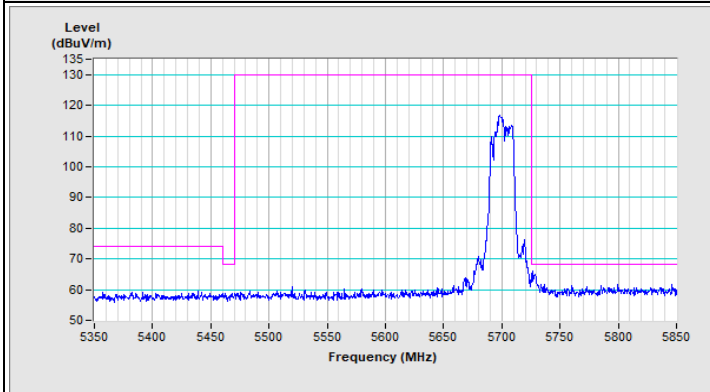


Vertical (Peak)

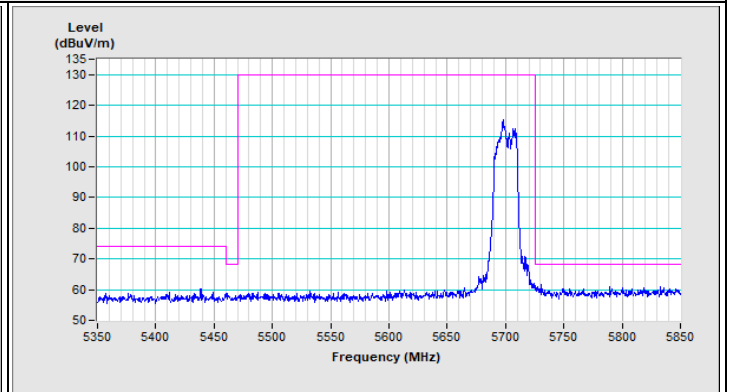


Vertical (Average)

802.11ac (VHT20) Channel 140



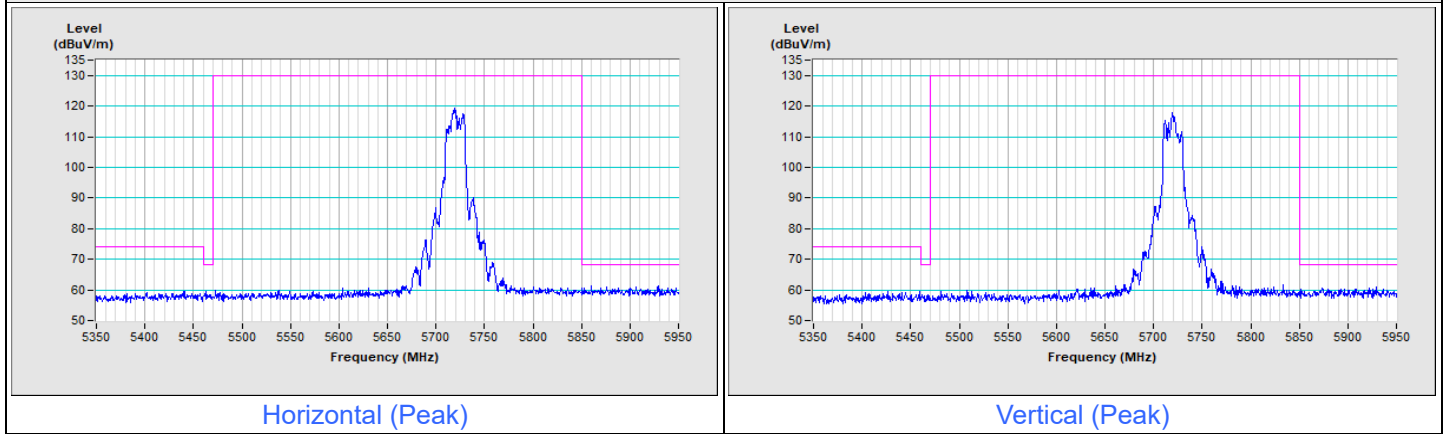
Horizontal (Peak)



Vertical (Peak)

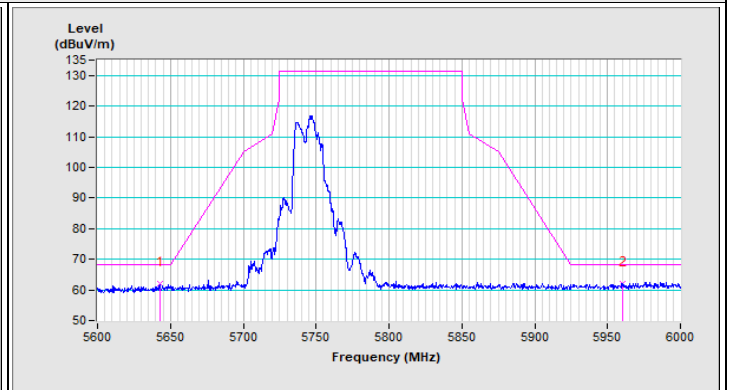
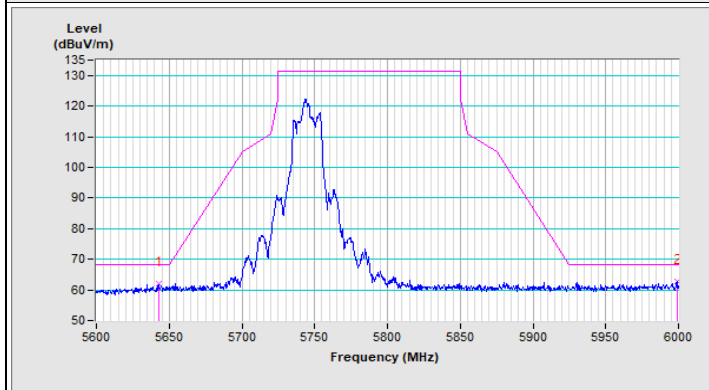
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT20) Channel 144

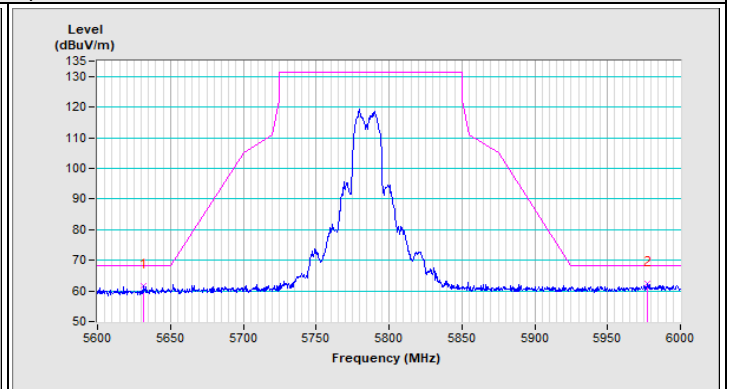
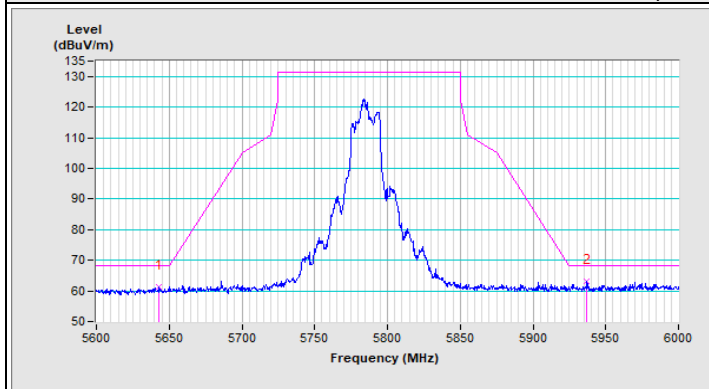


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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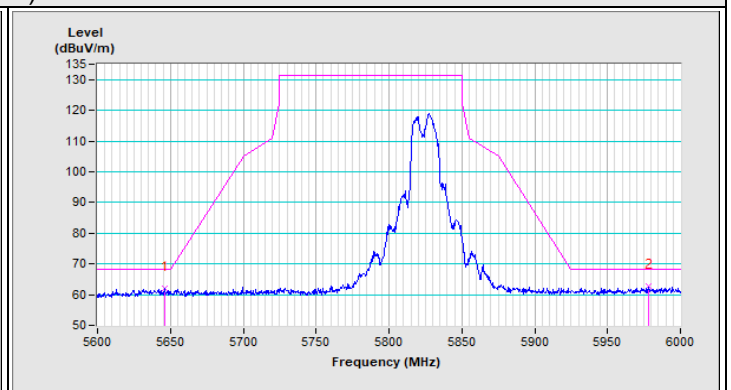
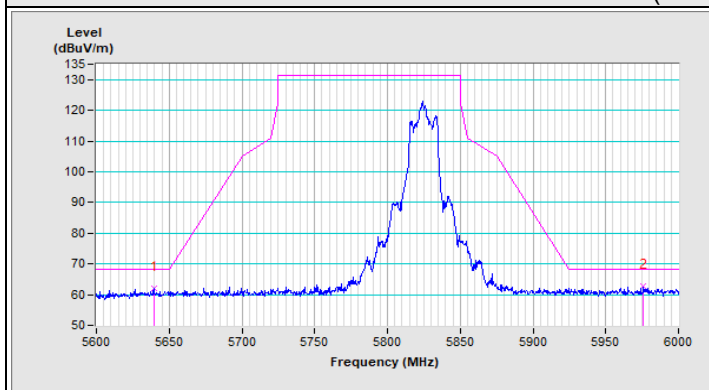
802.11ac (VHT20) Channel 149



802.11ac (VHT20) Channel 157

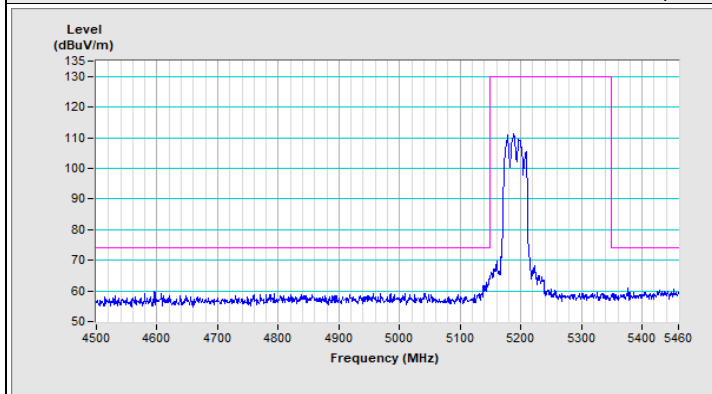


802.11ac (VHT20) Channel 165

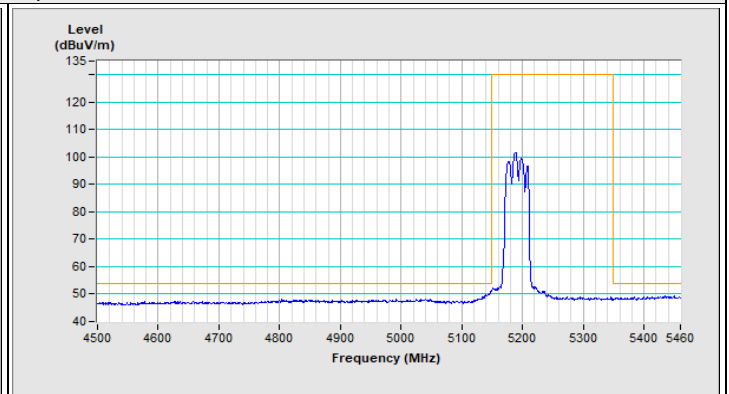


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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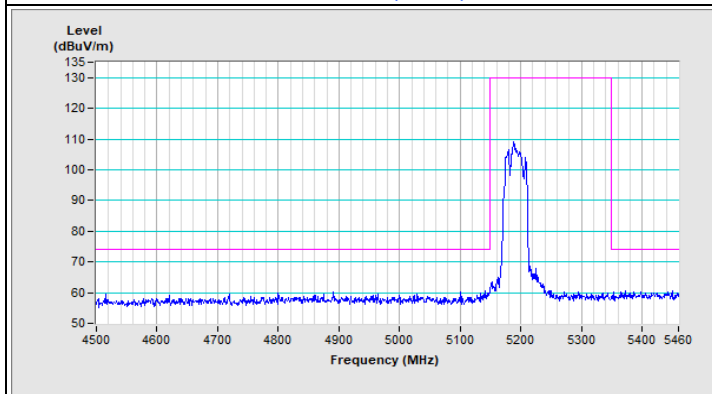
802.11ac (VHT40) Channel 38



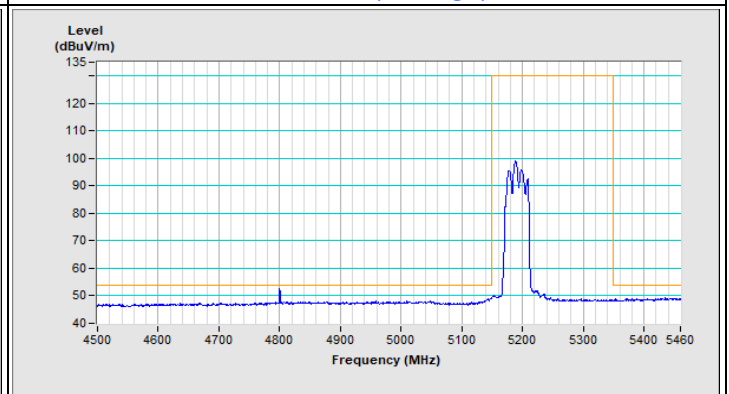
Horizontal (Peak)



Horizontal (Average)

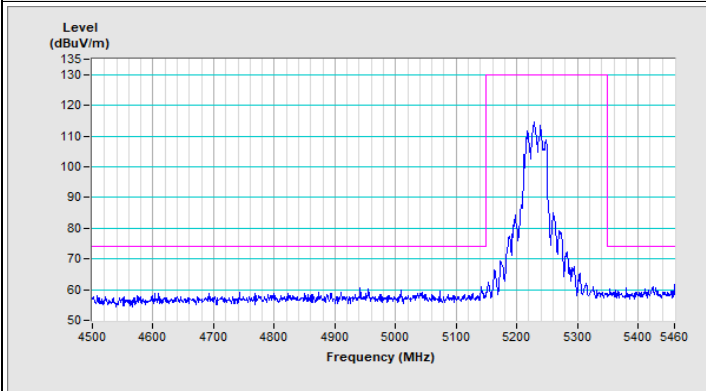


Vertical (Peak)

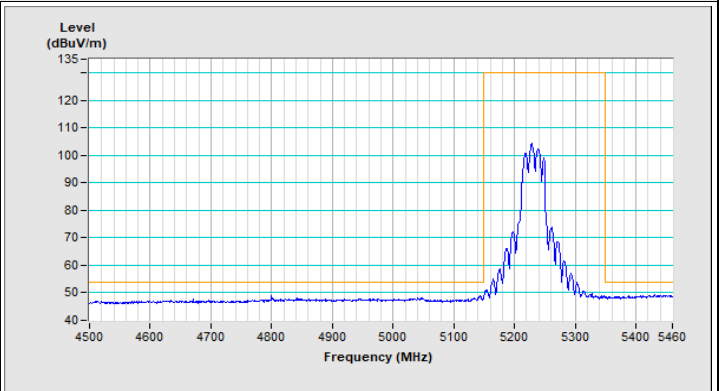


Vertical (Average)

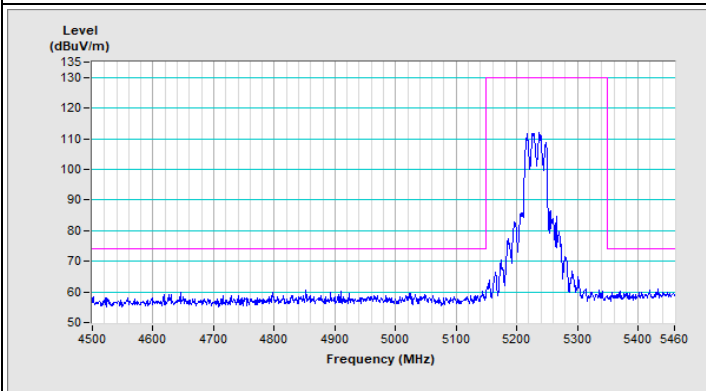
802.11ac (VHT40) Channel 46



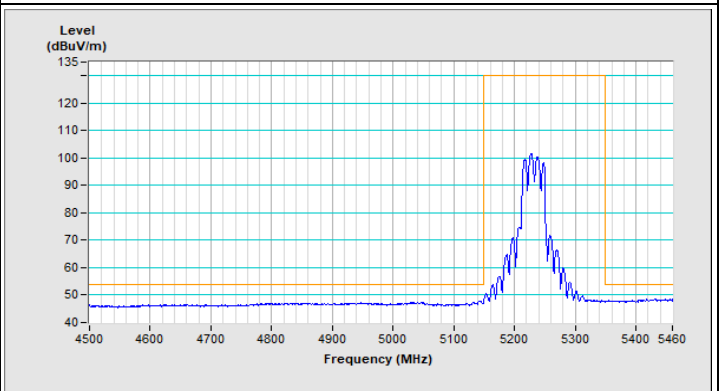
Horizontal (Peak)



Horizontal (Average)

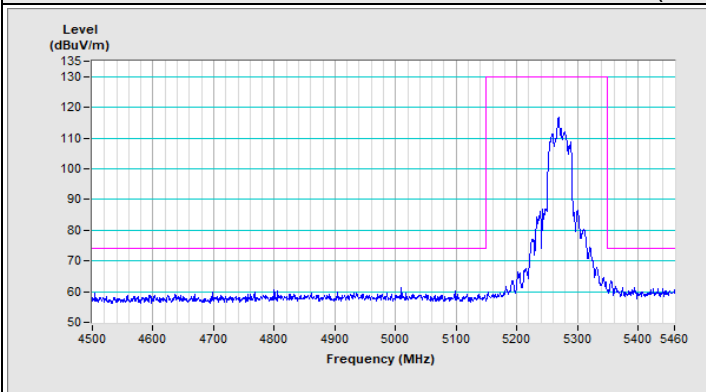


Vertical (Peak)

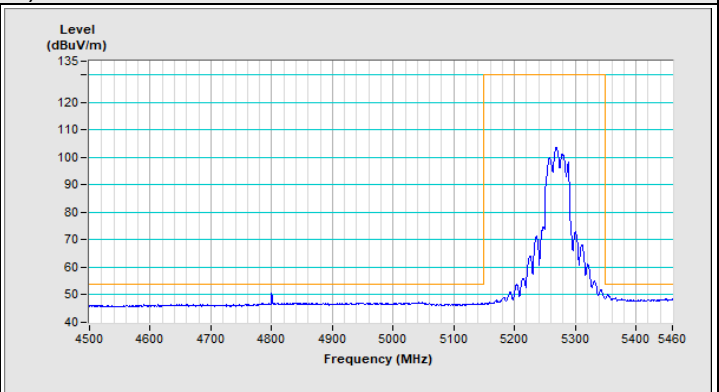


Vertical (Average)

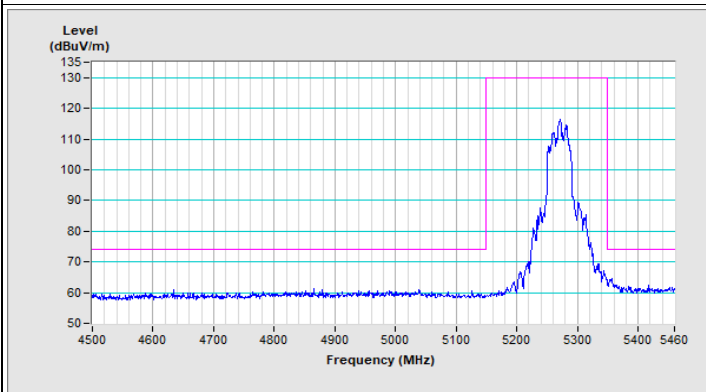
802.11ac (VHT40) Channel 54



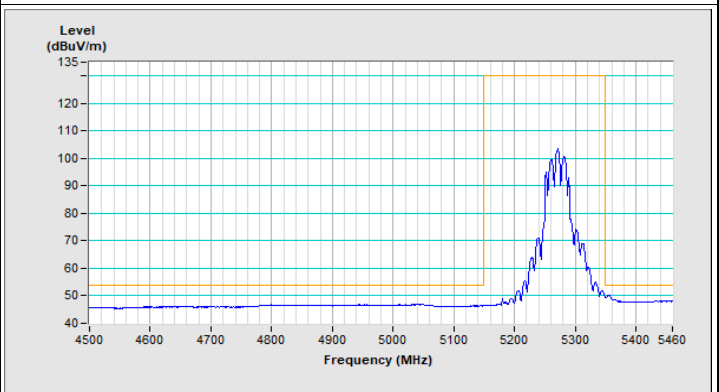
Horizontal (Peak)



Horizontal (Average)

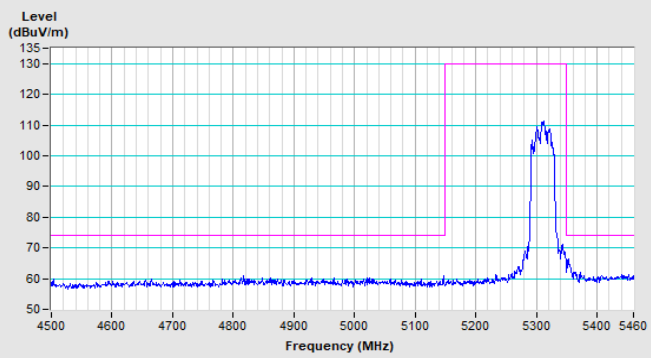


Vertical (Peak)

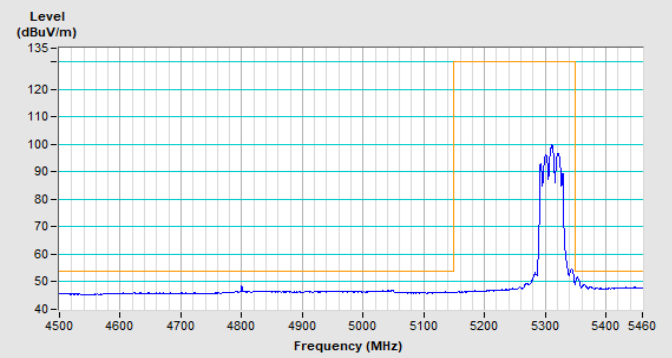


Vertical (Average)

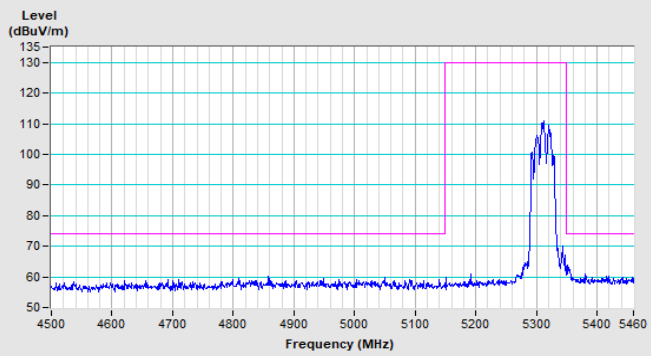
802.11ac (VHT40) Channel 62



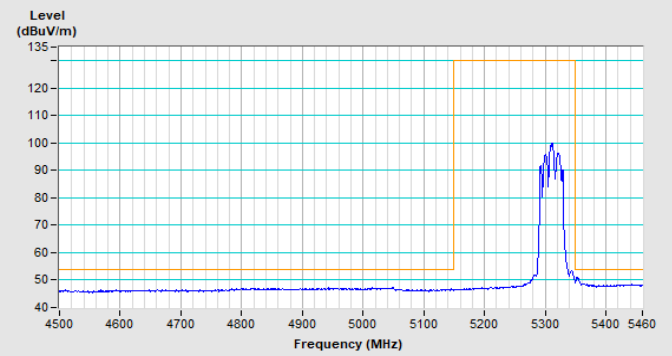
Horizontal (Peak)



Horizontal (Average)



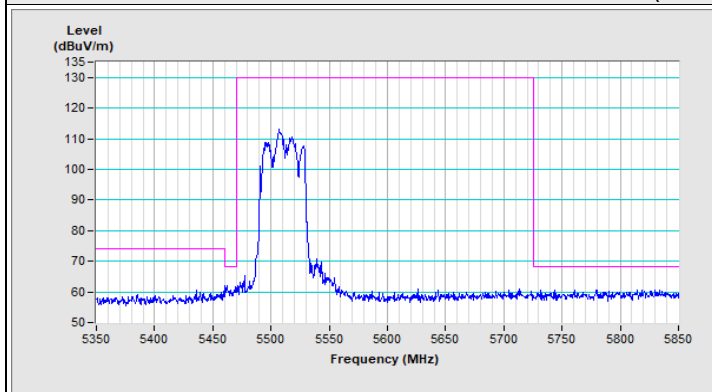
Vertical (Peak)



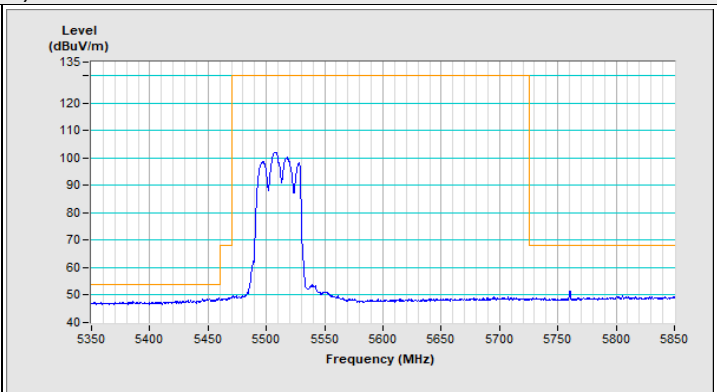
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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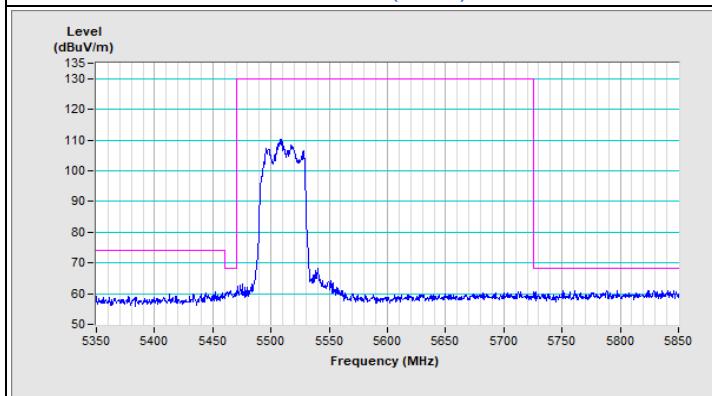
802.11ac (VHT40) Channel 102



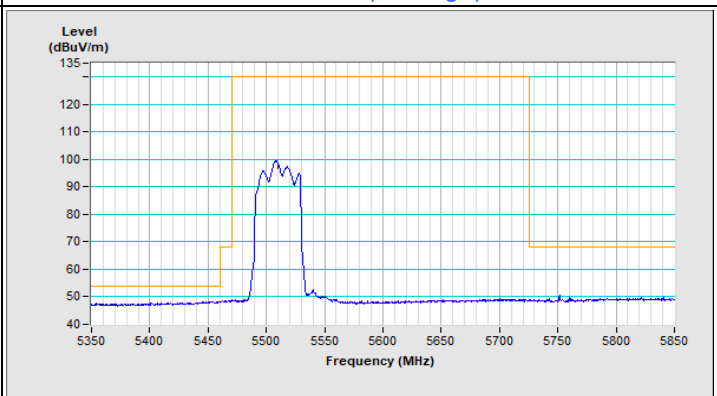
Horizontal (Peak)



Horizontal (Average)

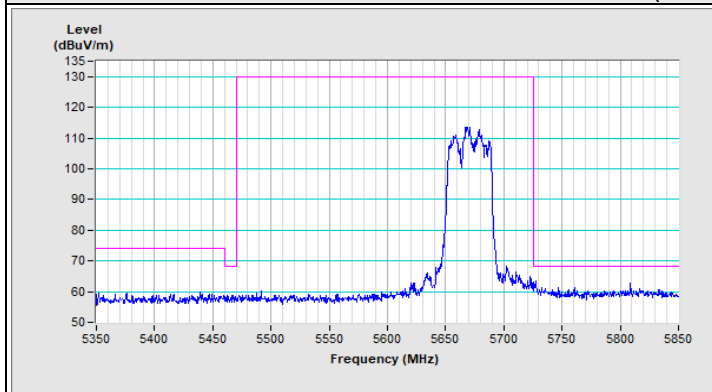


Vertical (Peak)

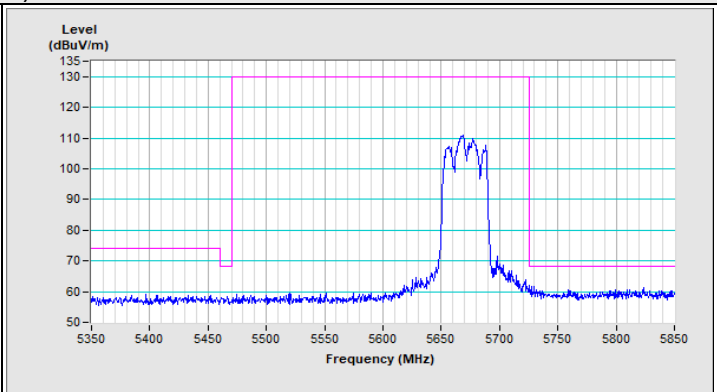


Vertical (Average)

802.11ac (VHT40) Channel 134



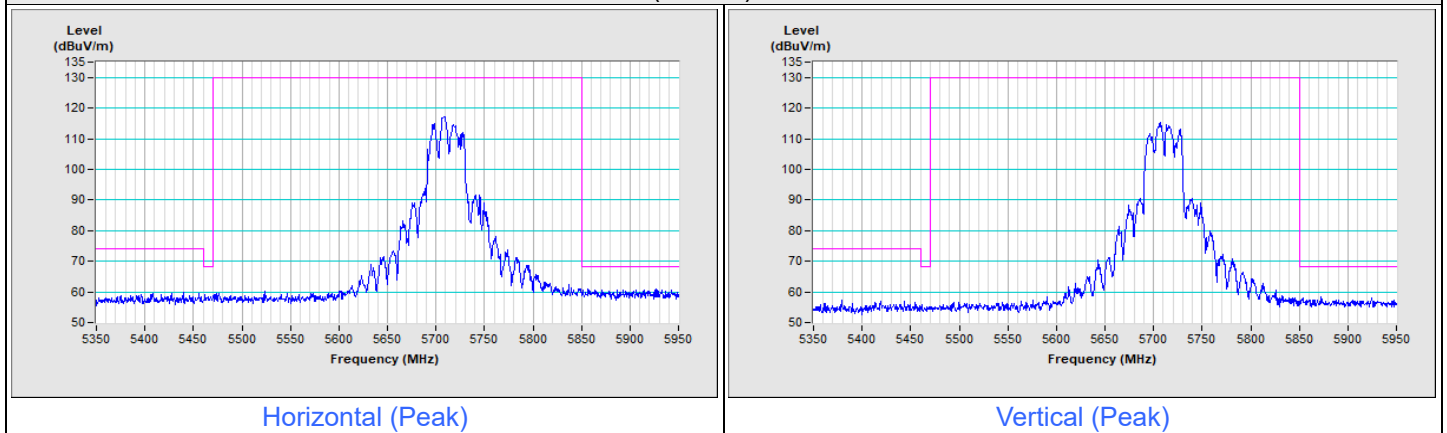
Horizontal (Peak)



Vertical (Peak)

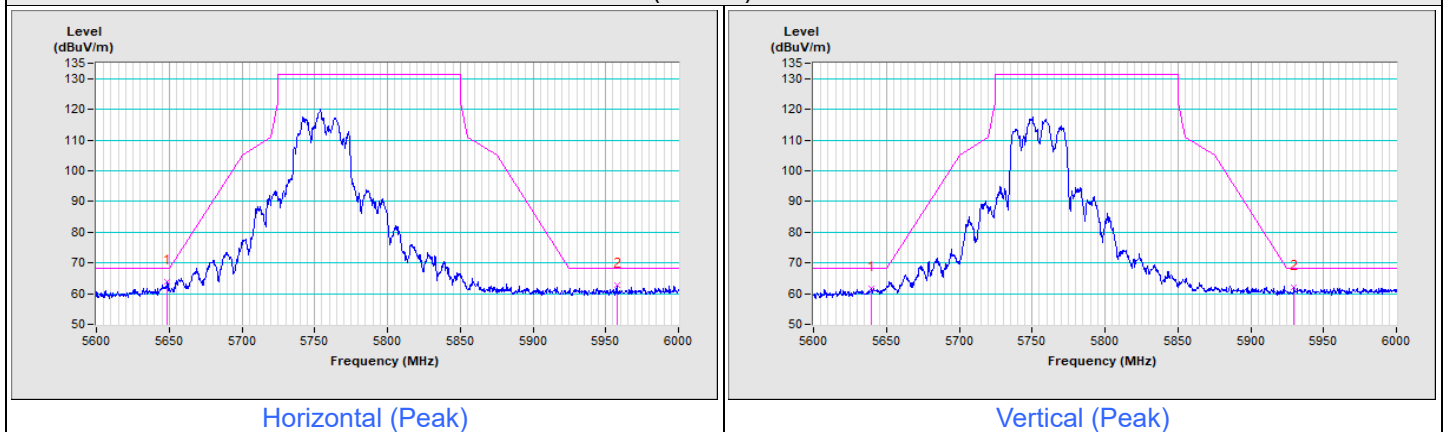
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT40) Channel 142

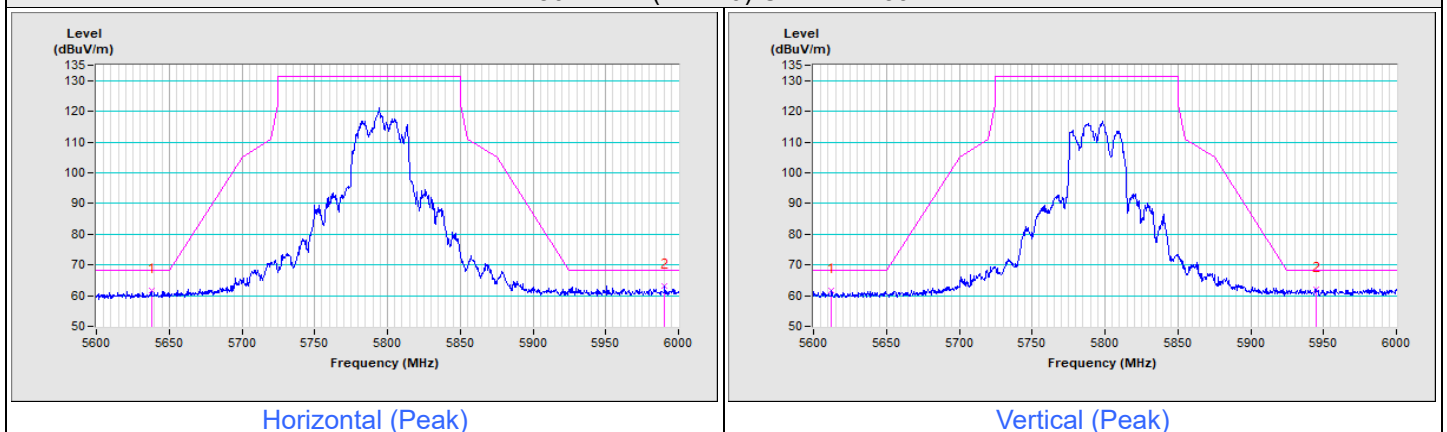


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT40) Channel 151

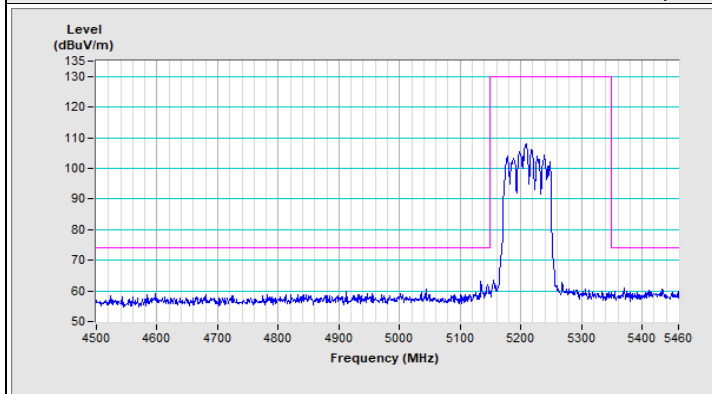


802.11ac (VHT40) Channel 159

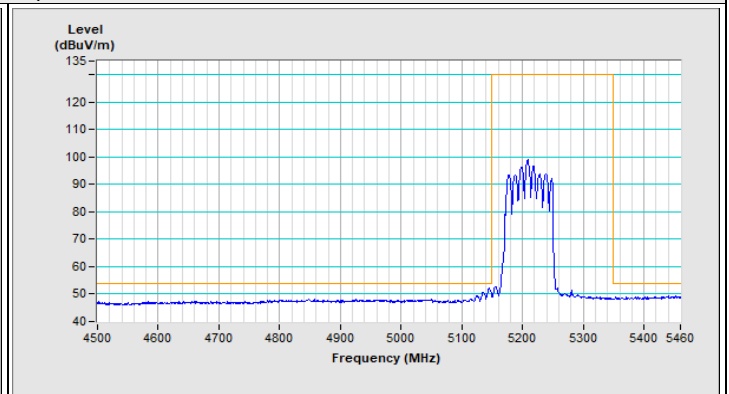


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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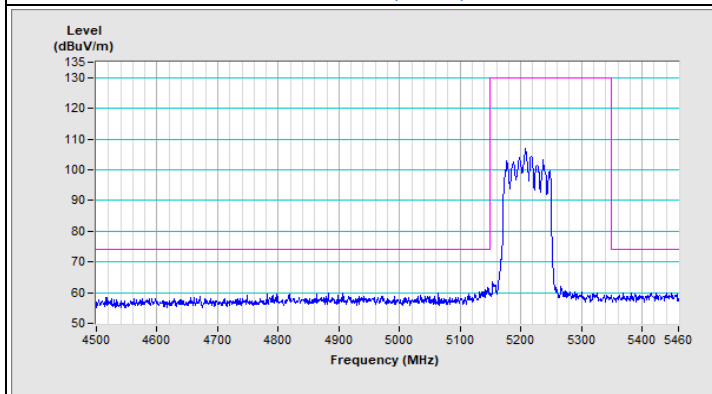
802.11ac (VHT80) Channel 42



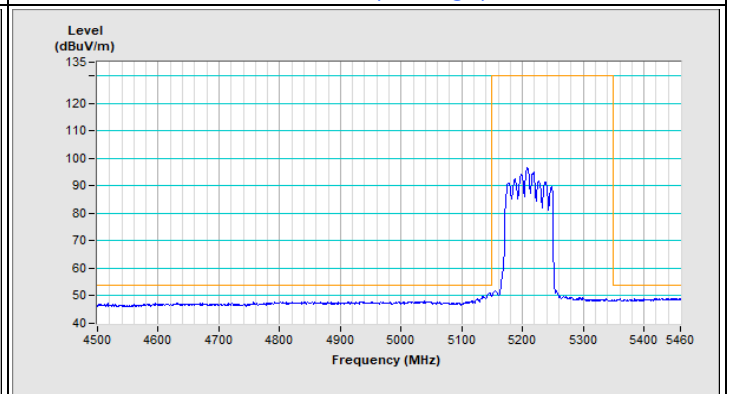
Horizontal (Peak)



Horizontal (Average)

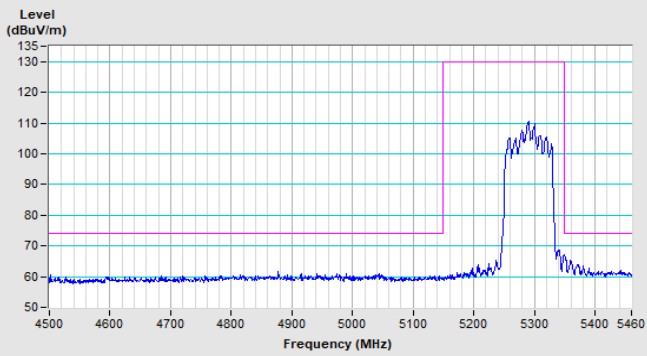


Vertical (Peak)

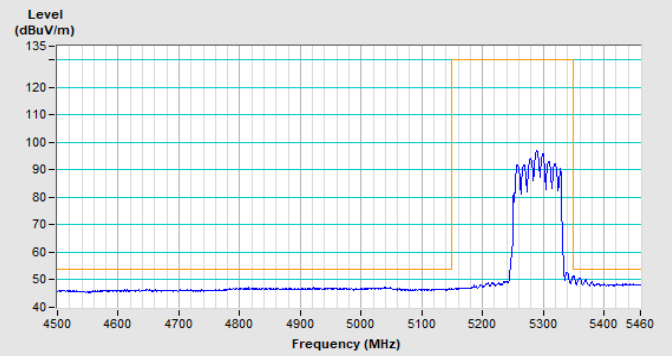


Vertical (Average)

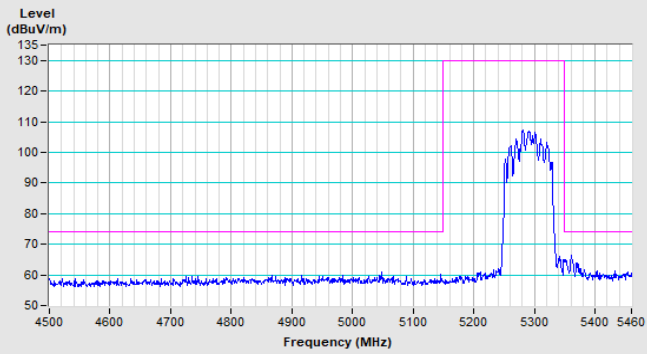
802.11ac (VHT80) Channel 58



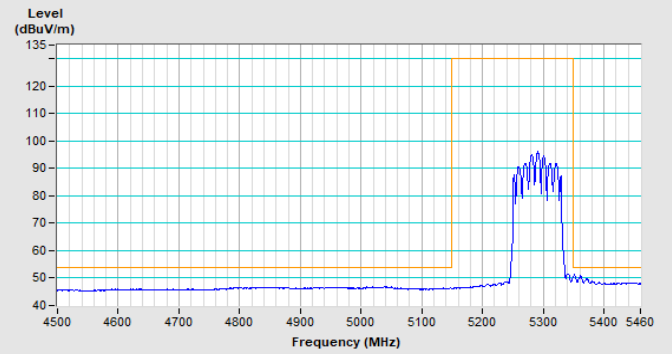
Horizontal (Peak)



Horizontal (Average)



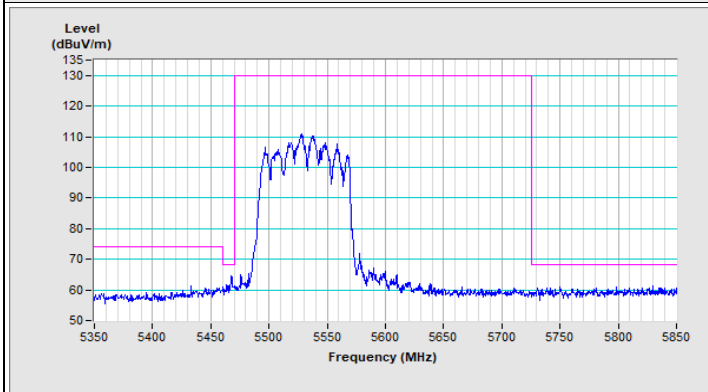
Vertical (Peak)



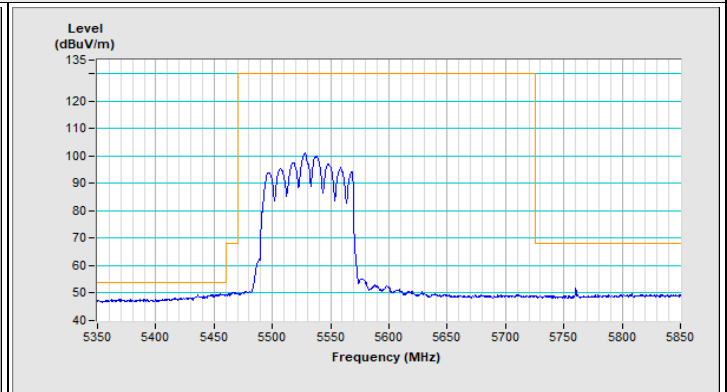
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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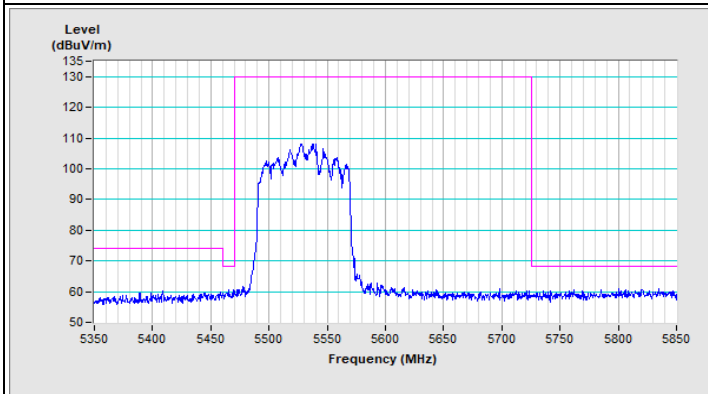
802.11ac (VHT80) Channel 106



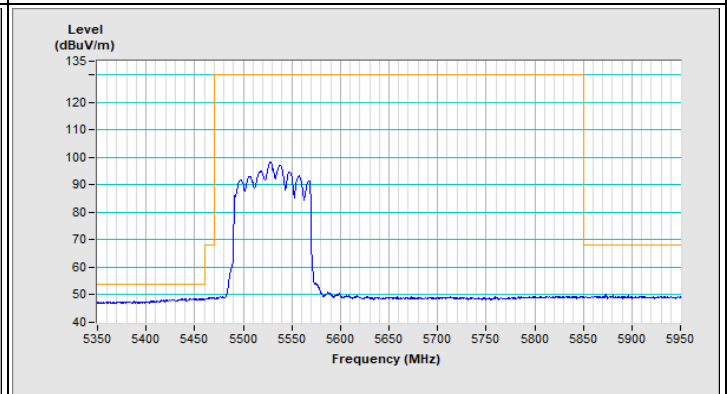
Horizontal (Peak)



Horizontal (Average)

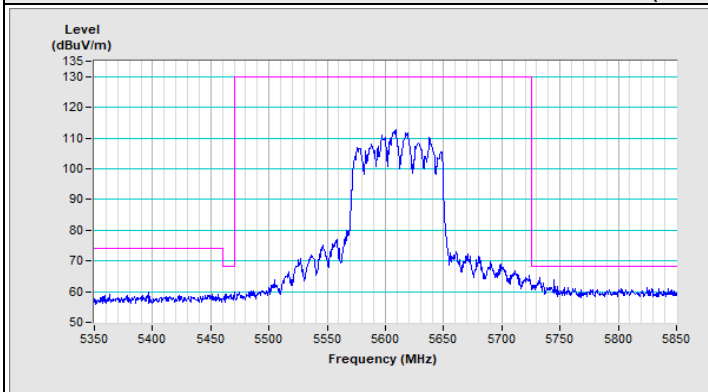


Vertical (Peak)

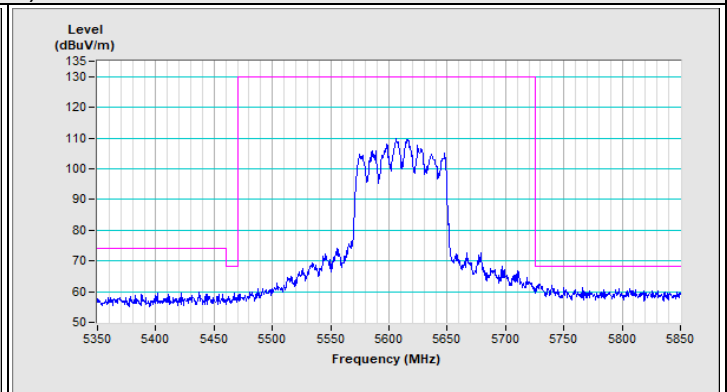


Vertical (Average)

802.11ac (VHT80) Channel 122



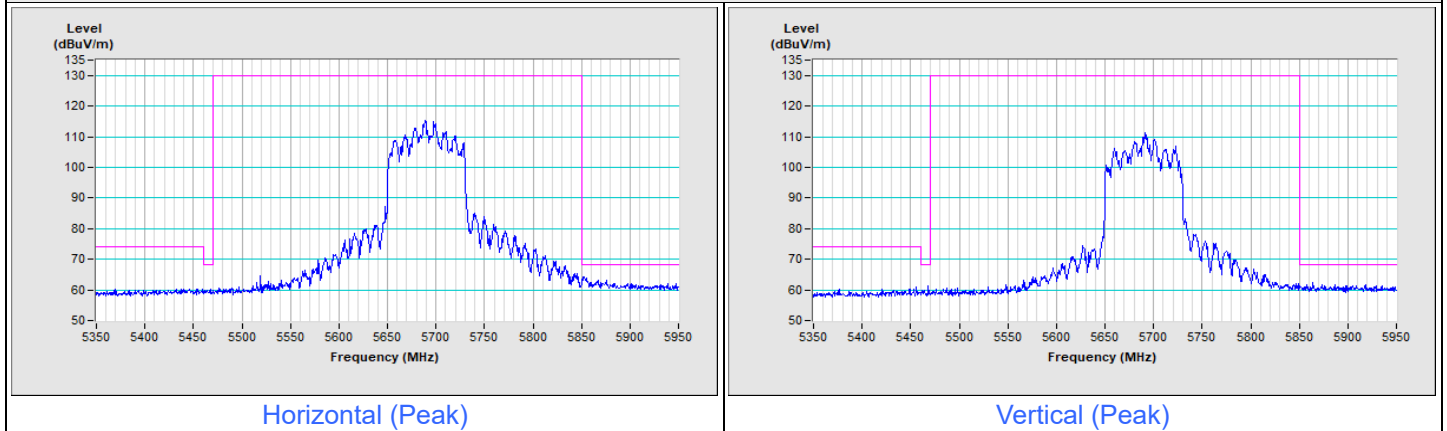
Horizontal (Peak)



Vertical (Peak)

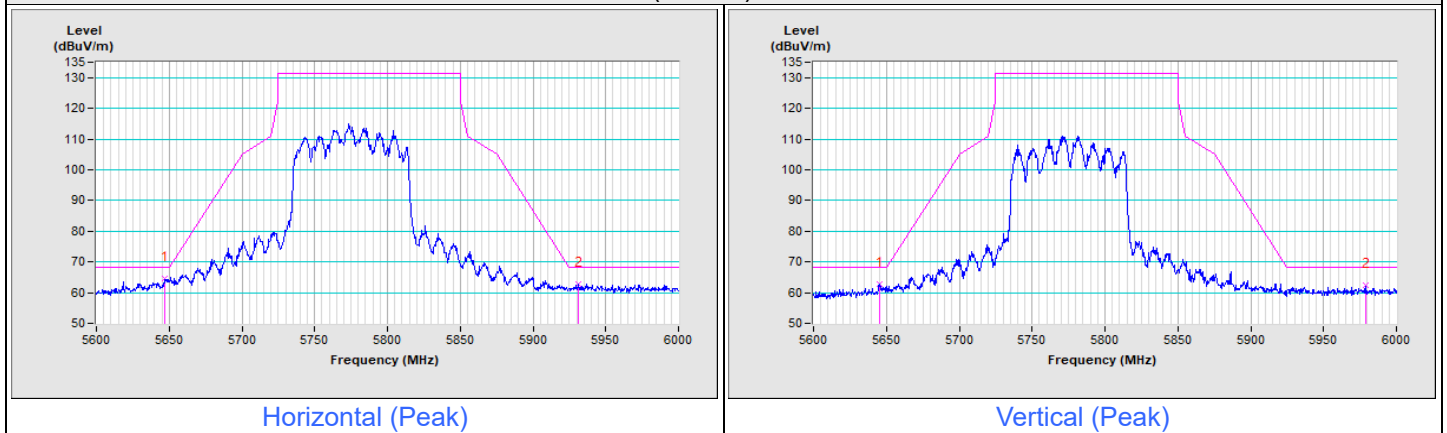
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT80) Channel 138



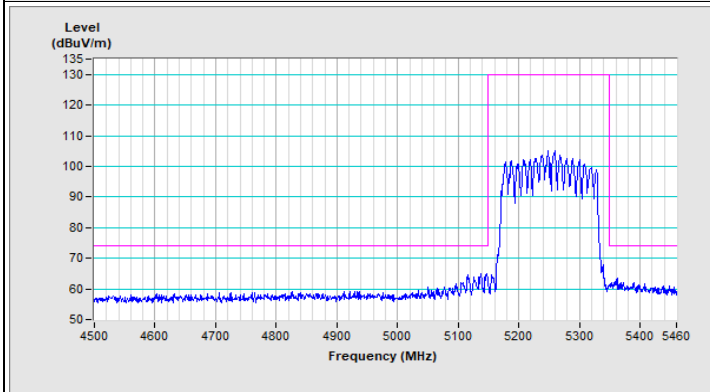
Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT80) Channel 155

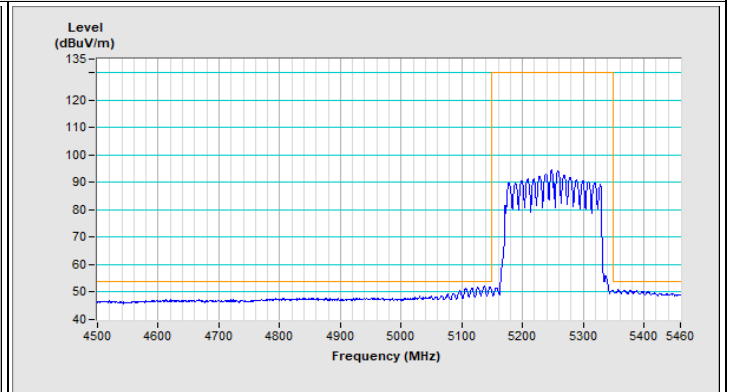


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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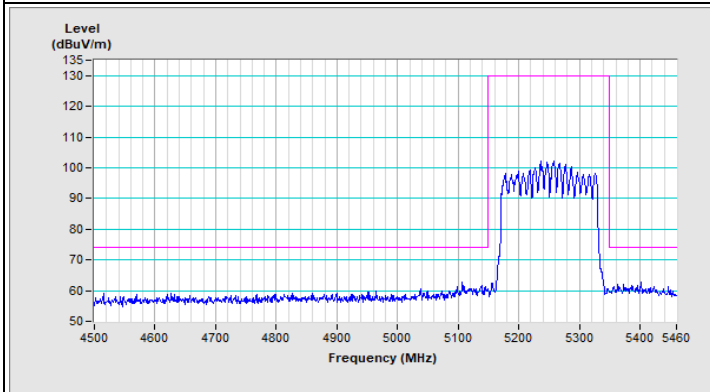
802.11ac (VHT160) Channel 50



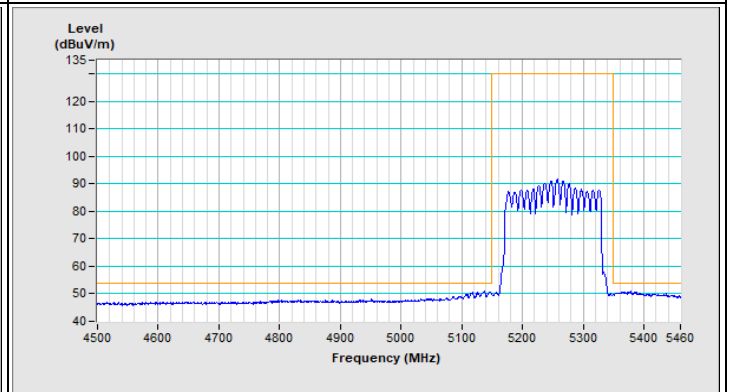
Horizontal (Peak)



Horizontal (Average)



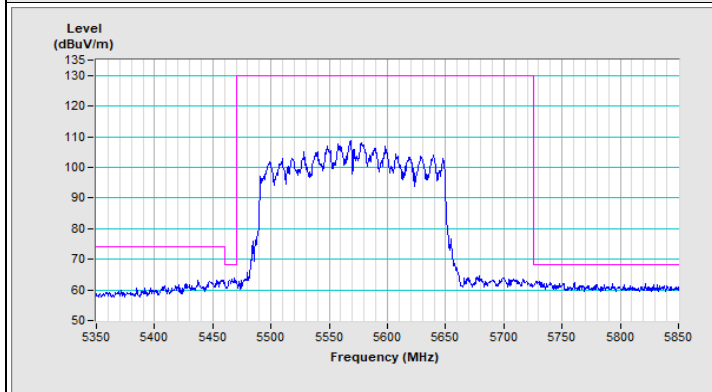
Vertical (Peak)



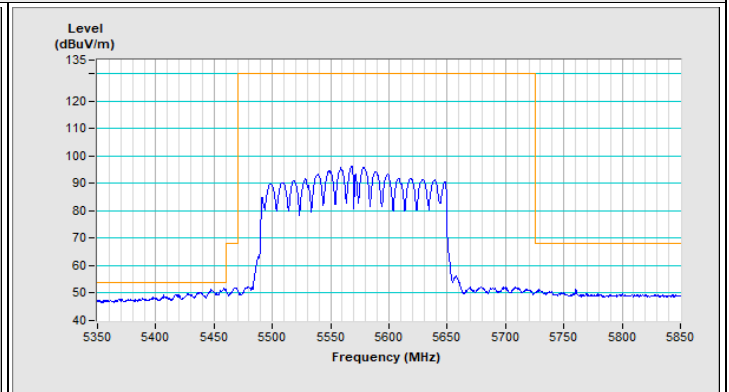
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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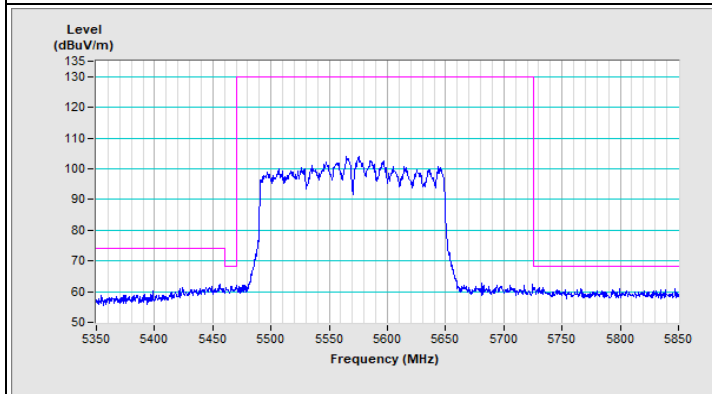
802.11ac (VHT160) Channel 114



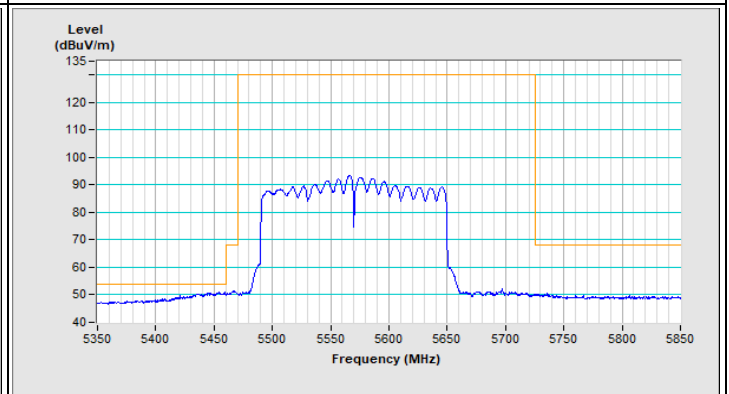
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

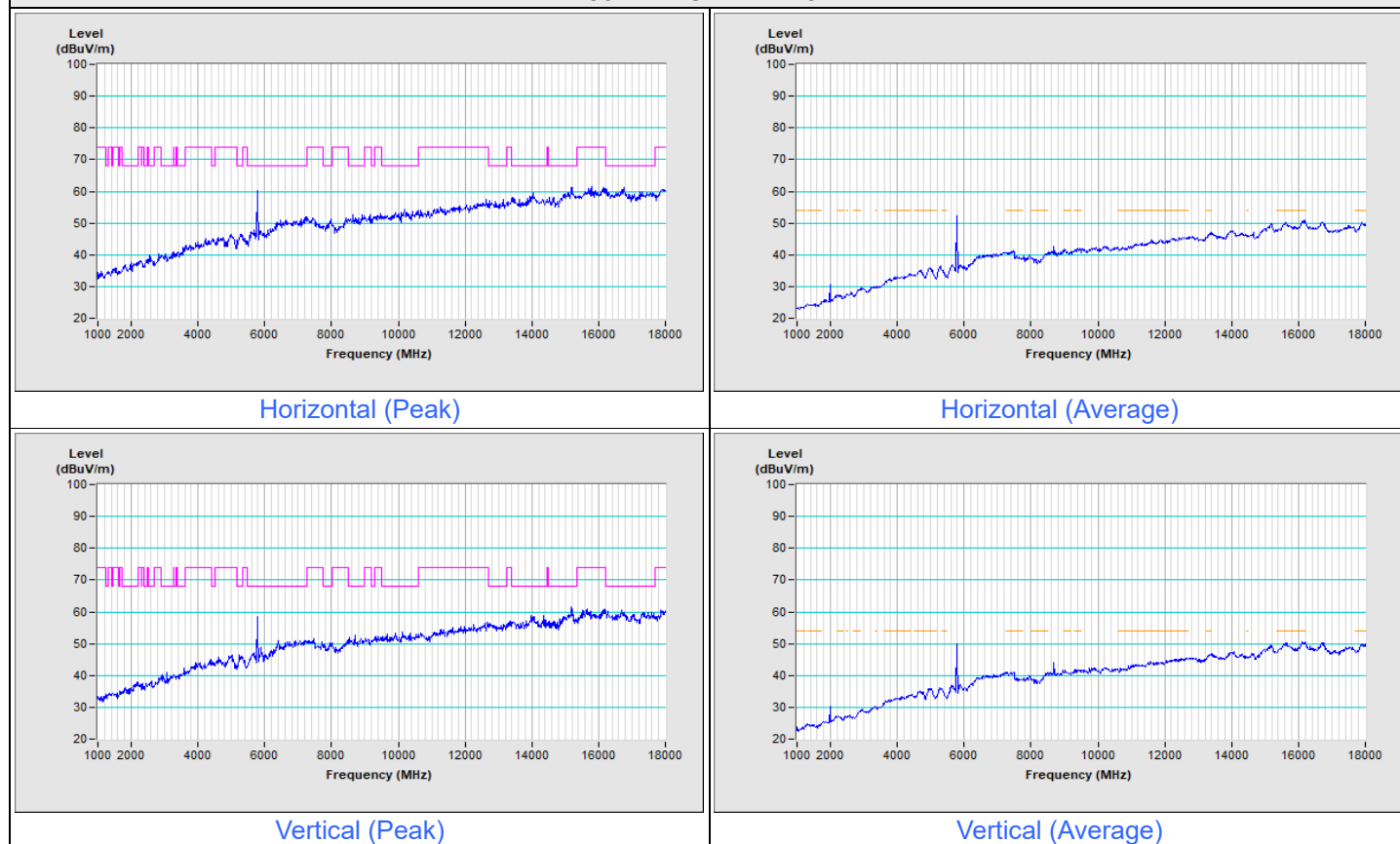


Vertical (Average)

Plot of Other Emission

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11a Channel 157

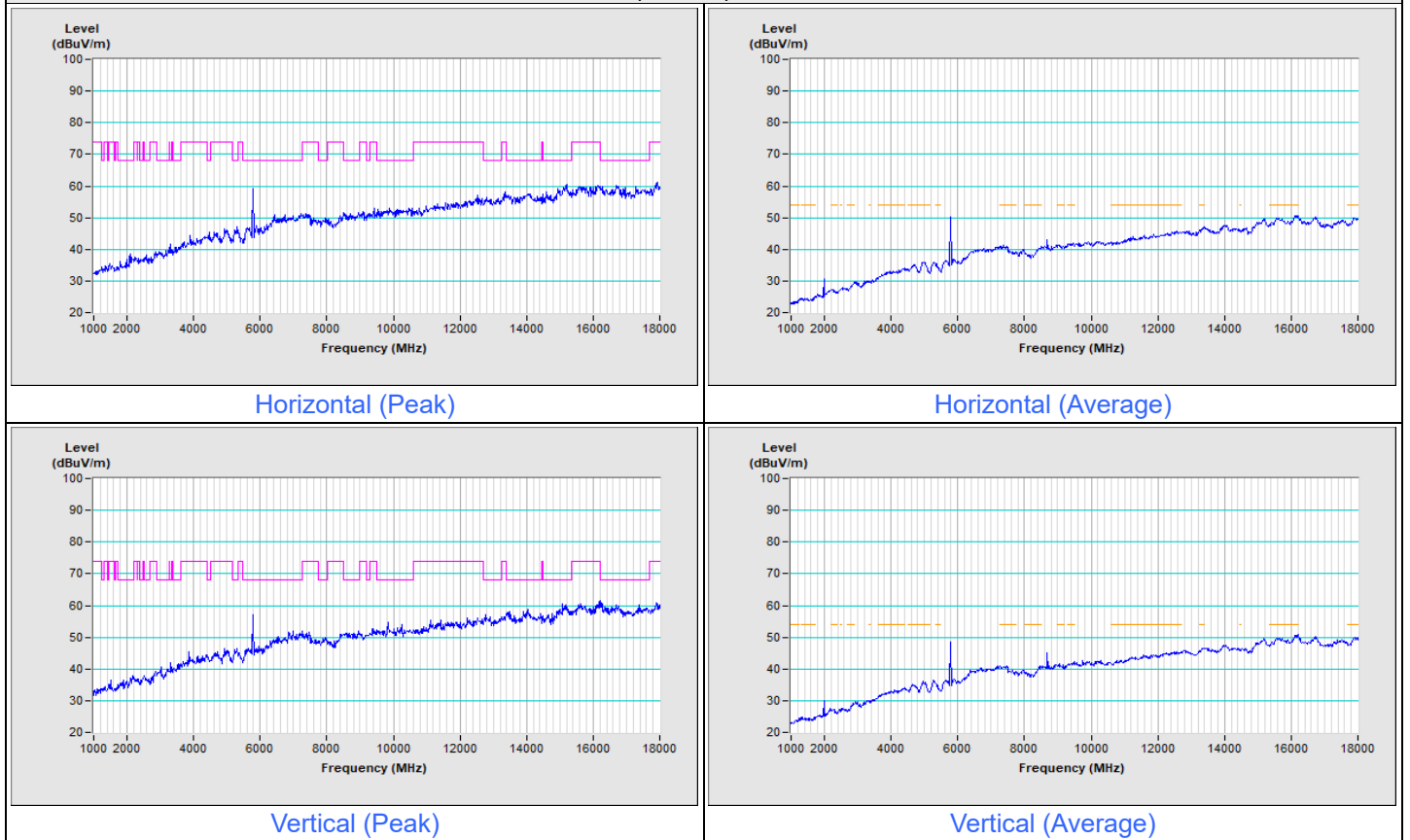


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11ac (VHT20) Channel 157

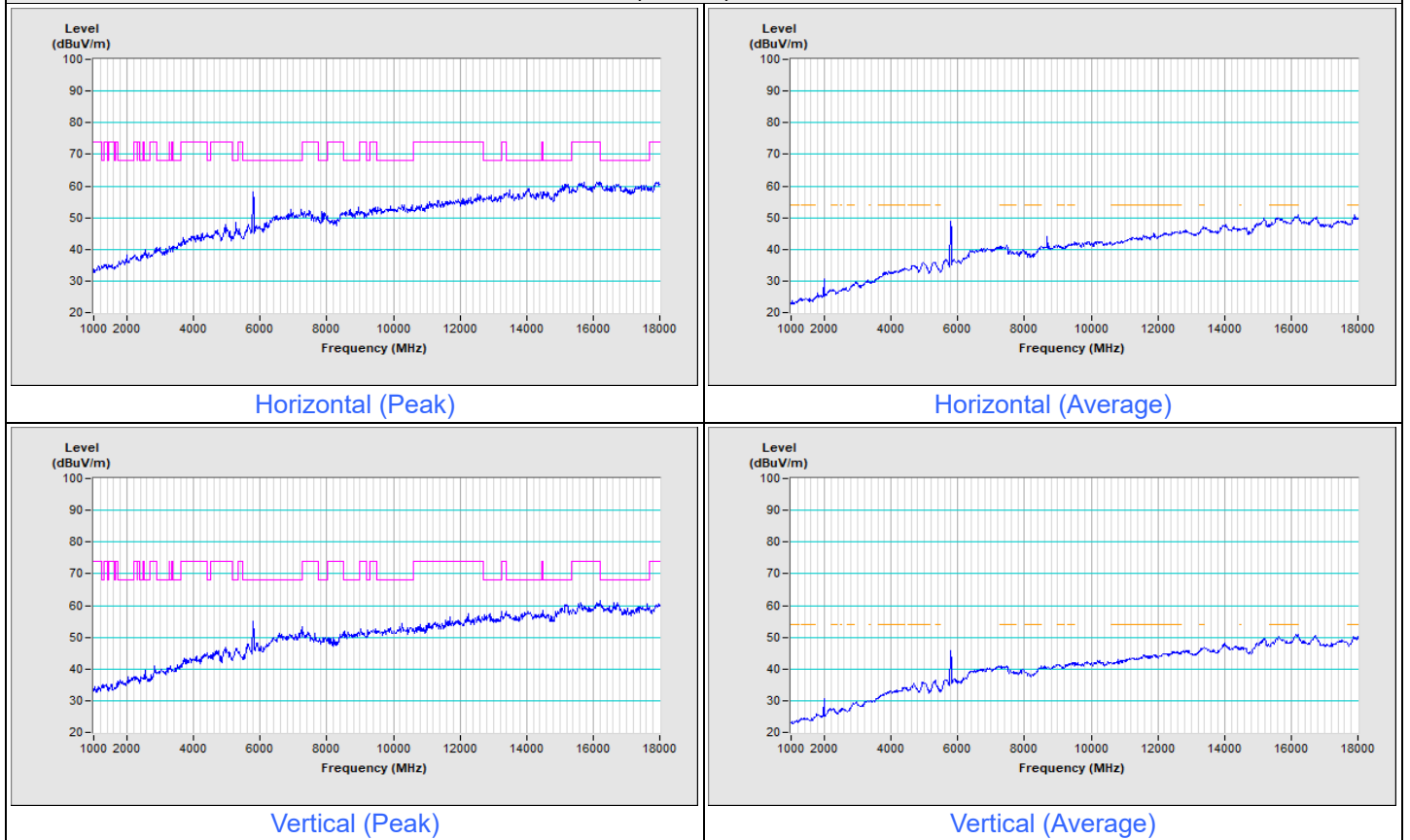


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11ac (VHT40) Channel 159

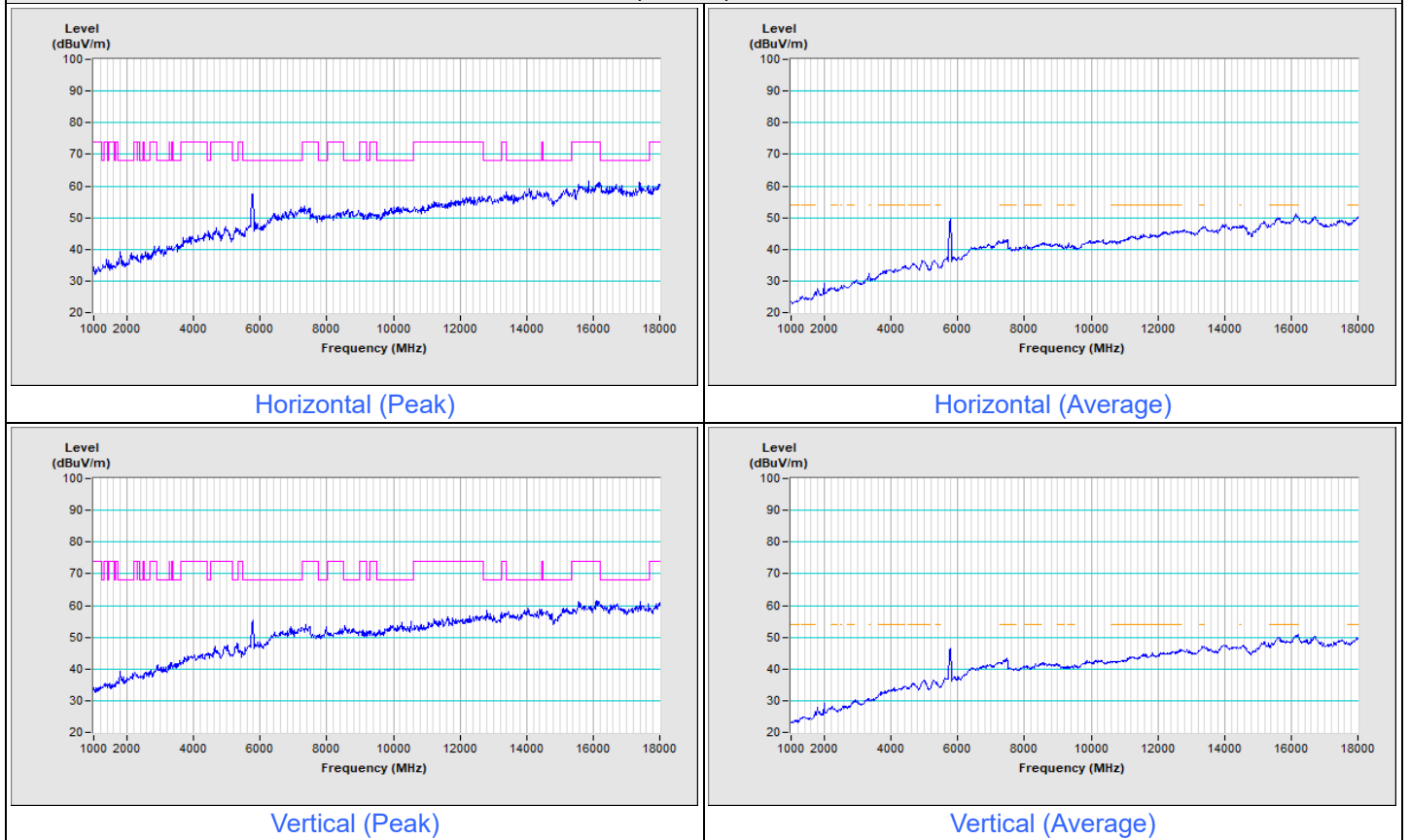


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11ac (VHT80) Channel 155

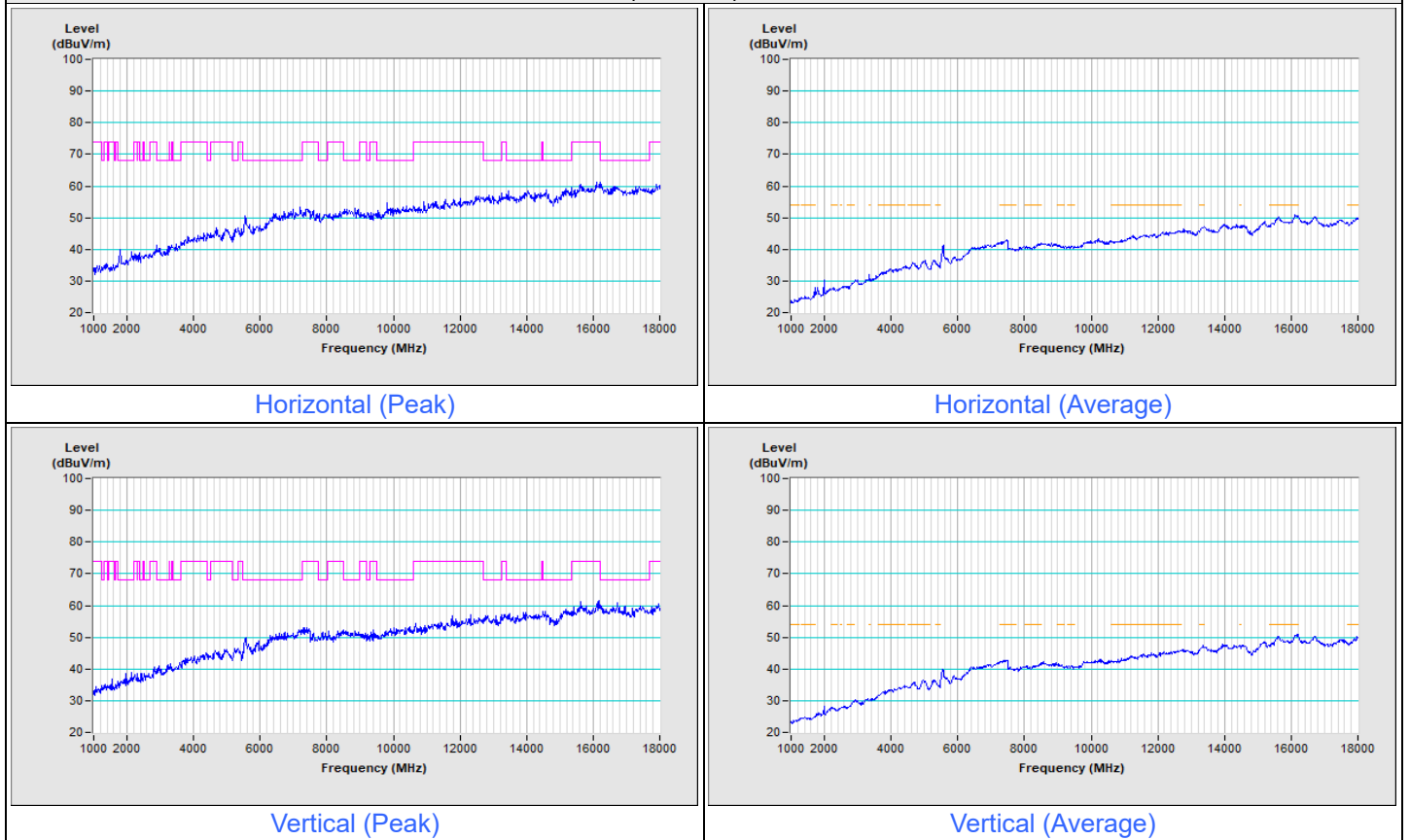


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11ac (VHT160) Channel 114



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

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The address and road map of all our labs can be found in our web site also.

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